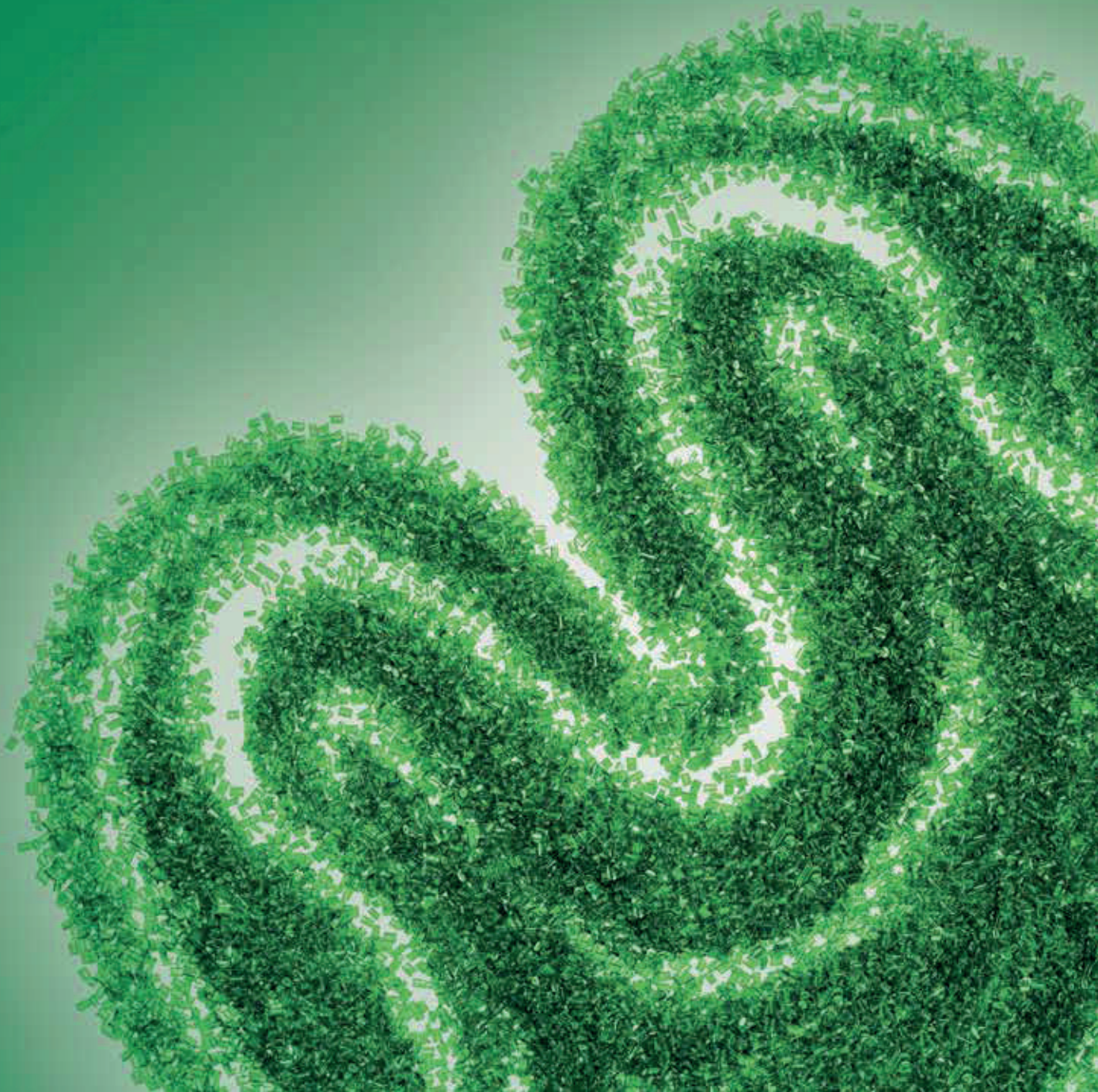


**ITI POLAND**  
Polymers & Compounds



PROPERTY	UNIT	STANDARD	ECO MEPLAC IS 110 BK	ECO MEPLAC IS 140 BK	ECO MEPLAC IS 200 BK	
PHYSICAL	Density (23°C)	g/cm <sup>3</sup>	ASTM D 792 ISO 1183	1,05	1,04	1,05
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	12	15
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	220/10	220/10	220/10
	Shore	-	ASTM D 2240 ISO 868	75	75	75
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	-	-	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,5/0,7	0,5/0,7	0,5/0,7
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	120	140	200
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	100
	Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	-	-
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	35	40	45
	Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	10	20	30
	Tensile modulus - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	2500	2400	2100
	Flexural modulus - dry/cond	N/mm <sup>2</sup>	ASTM D 790 ISO 178	2200	2100	1900
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	85	84	82
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	100	100	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	92	92	90
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	-	-	-
FR	Flame behaviour	-	UL94	-	-	

> ECO MEPLAC IS 110 BK

ABS standard for injection moulding. General porpouse. Black, grey. L: UV stabilized, AS: antistatic.

> ECO MEPLAC IS 140 BK

ABS standard for injection moulding. Medium impact. General porpouse. Black, grey. L: UV stabilized, AS: antistatic.

> ECO MEPLAC IS 200 BK

ABS standard for injection moulding. High impact. General porpouse. Black, grey. L: UV stabilized, AS: antistatic.



ECO compounds are made utilizing 30% of recycled polymers at least. These products are certified by CSI CERT and branded with "CSI Recycled plastic"



# ◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IC M10 BK	ECO MEPLEN IC M20 BK	ECO MEPLEN IH C20	ECO MEPLEN IH C30	ECO MEPLEN IH C40
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	0,94	0,94	1,04	1,13	1,23
MFI	g/10 min	ASTM D 1238 ISO 1133	10	20	10	10	10
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	66	68	70	72	72
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,02	0,02
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	-	-	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	-	-	1,4/1,8	1,2/1,6	1,1/1,5
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	100	80	30	30	30
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	20	22	25	23	20
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	40	40	40	30	20
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	1100	1150	1900	2200	2800
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	1000	1100	1800	2100	2700
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	95	100	110	112	115
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	58	60	61
VICAT (10 N)	°C	ASTM D 1525 ISO 306	145	150	146	148	150
VICAT (50 N)	°C	ASTM D 1525 ISO 306	60	70	85	90	95
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> **ECO MEPLEN IC M10 BK**  
Polypropylene copolymer injection moulding, medium flow, general porpouse.

> **ECO MEPLEN IC M20 BK**  
Polypropylene copolymer injection moulding, easy flow, general porpouse.

> **ECO MEPLEN IH C20**  
Polypropylene homopolymer, calcium carbonate 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IH C30**  
Polypropylene homopolymer, calcium carbonate 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IH C40**  
Polypropylene homopolymer, calcium carbonate 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.



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# ◆ Polypropylene

	PROPERTY	UNIT	STANDARD	ECO MEPLEN IH T20	ECO MEPLEN IH T30	ECO MEPLEN IH T40	ECO MEPLEN IH F30	ECO MEPLEN IH F40
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,04	1,13	1,25	1,12	1,21
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	9	9
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ASTM D 2240 ISO 868	74	75	76	78	78
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,07	0,07
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	20	30	40	30	40
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	1,1/1,5	0,9/1,3	0,7/1,1	0,1/0,4	0,1/0,3
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	30	30	25	80	80
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	30	28	26	78	80
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	20	20	20	5	3
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2300	2900	3400	5600	7000
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2200	2800	3300	4500	5500
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	120	125	130	155	157
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	65	70	75	140	145
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	150	150	150	158	158
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	90	90	105	130	130
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR	Flame behaviour	-	UL94	-	-	-	-	-



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## > ECO MEPLEN IH T20

Polypropylene homopolymer, talc 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

## > ECO MEPLEN IH T30

Polypropylene homopolymer, talc 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

## > ECO MEPLEN IH T40

Polypropylene homopolymer, talc 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

## > ECO MEPLEN IH F30

Polypropylene homopolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

## > ECO MEPLEN IH F40

Polypropylene homopolymer, glass fibre reinforced 40% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

# ◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IH F50	ECO MEPLEN IH S30	ECO MEPLEN IC C20	ECO MEPLEN IC C30	ECO MEPLEN IC C40
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792 ISO 1183	1,33	1,12	1,05	1,12	1,23
MFI	g/10 min	ASTM D 1238 ISO 1133	9	10	10	10	10
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	78	74	70	72	72
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,07	-	-	-	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	50	30	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,1/0,3	0,8/1,0	1,4/1,8	1,2/1,6	1,1/1,5
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	75	25	40	40	35
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	82	20	24	22	19
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	3	50	45	35	25
Tensile modulus - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	9800	2100	1800	2100	2600
Flexural modulus - dry/cond	N/mm <sup>2</sup>	ASTM D 790 ISO 178	9000	1800	1600	1900	2400
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	162	115	100	102	105
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	145	55	56	58	59
VICAT (10 N)	°C	ASTM D 1525 ISO 306	162	148	140	145	148
VICAT (50 N)	°C	ASTM D 1525 ISO 306	142	88	80	85	90
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

## > ECO MEPLEN IH F50

Polypropylene homopolymer, glass fibre reinforced 50% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

## > ECO MEPLEN IH S30

Polypropylene homopolymer, glass beads filled 30%. Easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized.

## > ECO MEPLEN IC C20

Polypropylene copolymer, calcium carbonate 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

## > ECO MEPLEN IC C30

Polypropylene copolymer, calcium carbonate 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

## > ECO MEPLEN IC C40

Polypropylene copolymer, calcium carbonate 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.



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# ◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IC T20	ECO MEPLEN IC T30	ECO MEPLEN IC T40	ECO MEPLEN IC F30	ECO MEPLEN IC F40	
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,04	1,13	1,21	1,12	1,21
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	9	9
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ASTM D 2240 ISO 868	74	75	76	76	76
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	20	30	40	30	40
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	1,1/1,5	0,9/1,3	0,7/1,1	0,1/0,4	0,1/0,3
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	40	40	35	85	85
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	28	26	24	70	75
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	40	30	20	10	6
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2200	2800	3200	5200	6100
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2000	2600	3000	4200	5200
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	115	120	125	150	152
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	62	67	72	130	135
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	145	147	150	142	145
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	85	90	95	120	125
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR	Flame behaviour	-	UL94	-	-	-	-	-



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> **ECO MEPLEN IC T20**  
Polypropylene copolymer, talc 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IC T30**  
Polypropylene copolymer, talc 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IC T40**  
Polypropylene copolymer, talc 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IC F30**  
Polypropylene copolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> **ECO MEPLEN IC F40**  
Polypropylene copolymer, glass fibre reinforced 40% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

# ◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IC F50	ECO MEPLEN IC S30	ECO MEYTEL I6 BK	ECO MEYTEL I6 F20 BK	ECO MEYTEL I6 F30 BK	
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,33	1,12	1,13	1,28	1,36
	MFI	g/10 min	ASTM D 1238 ISO 1133	9	10	-	-	-
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	-	-	-
	Shore	-	ASTM D 2240 ISO 868	76	74	-	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	-	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	1,9	2,3	1,9
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	9	7,2	6,3
	Filler content	%	ASTM D 2584 ISO 3451	50	30	-	20	30
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,1/0,3	0,8/1,0	1,3/1,7	0,35	0,2
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	80	35	40/200	60/80	70/80
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	30	40	50
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	80	19	55	-	-
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	4	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	95/75	120/90
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	4	60	80/150	5/10	4/8
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	11000	1800	2400/1100	6000/4500	7500/5800
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	8600	1600	2200/1000	4800/3500	6200/5500
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	157	110	150	200	208
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	140	50	50	195	205
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	155	143	-	-	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	135	83	190	205	210
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	220	220	220
FR	Flame behaviour	-	UL94	-	-	-	-	-



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### > ECO MEPLEN IC F50

Polypropylene copolymer, glass fibre reinforced 50% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

### > ECO MEPLEN IC S30

Polypropylene copolymer, glass beads filled 30%. Easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized.

### > ECO MEYTEL I6 BK

Polyamide 6 general purpose. Black.

### > ECO MEYTEL I6 F20 BK

Polyamide 6 glass fibre reinforced 20%. General purpose, black. H: heat stabilized.

### > ECO MEYTEL I6 F30 BK

Polyamide 6 glass fibre reinforced 30%. General purpose, black. H: heat stabilized.

PROPERTY	UNIT	STANDARD	ECO MEBLEND IT 45 BK	ECO MEBLEND IT 65 BK	ECO MEBLEND IT 85 BK	
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,12	1,13	1,14
	MFI	g/10 min	ASTM D 1238 ISO 1133	15	15	15
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	260/5	260/5	260/5
	Shore	-	ASTM D 2240 ISO 868	-	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,25	0,25	0,25
	Water absorption (saturation)	%	ASTM D 570 ISO 62	0,6	0,6	0,6
	Filler content	%	ASTM D 2584 ISO 3451	-	-	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,6	0,6	0,6
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	300	450	500
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	200	350	400
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	42	46	50
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	30	50	60
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2200	2300	2400
THERMAL	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2200	2300	2400
	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	100	110	115
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	120	130	135
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	114	118	126
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	-	-	-
FR	Flame behaviour	-	UL94	-	-	

> **ECO MEBLEND IT 45 BK**  
 PC/ABS blend standard grade. General purpose. Easy moulding and good technical properties. Black.

> **ECO MEBLEND IT 65 BK**  
 PC/ABS blend medium impact. General purpose. Easy moulding and good technical properties. Black.

> **ECO MEBLEND IT 85 BK**  
 PC/ABS blend high impact. General purpose. Easy moulding and good technical properties. Black.



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# Itilen HD

PROPERTY	UNIT	STANDARD		ITILEN HD F BK	ITILEN HD R BK	ITILEN HD Z BK	ITILEN HD N BK
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,94 - 0,96	0,94 - 0,96	0,94 - 0,96	0,94 - 0,96
MFI	g/10 min	ASTM D 1238	ISO 1133	0,6-2,0	0,6-2,0	5 - 10	5 - 10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	190/2,16	190/2,16	190/2,16	190/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	-	-	-	-
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	130 - 135	130 - 135	130 - 135	130 - 135
Flame behaviour	-	UL94		-	-	-	-

## High Density Polyethylene

> **ITILEN HD F BK**  
High-density polyethylene (PEHD), film extrusion

> **ITILEN HD R BK**  
High-density polyethylene (PEHD), pipe extrusion

> **ITILEN HD Z BK**  
High-density polyethylene (PEHD), special purpose

> **ITILEN HD N BK**  
High-density polyethylene (PEHD), injection moulding

PROPERTY	UNIT	STANDARD		ITILEN LD F BK	ITILEN LD R BK	ITILEN LD N BK
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,92 - 0,94	0,92 - 0,94	0,92 - 0,94
MFI	g/10 min	ASTM D 1238	ISO 1133	1,0-2,0	0,4-1,0	2,0-4,0
MFI condition	°C/kg	ASTM D 1238	ISO 1133	190/2,16	190/2,16	190/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	-	-	-
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	115 - 120	115 - 120	115 - 120
Flame behaviour	-	UL94		-	-	-

> ITILEN LD F BK

Low-density polyethylene (PELD), film extrusion

> ITILEN LD R BK

Low-density polyethylene (PELD), pipe extrusion

> ITILEN LD N BK

Low-density polyethylene (PELD), injection moulding

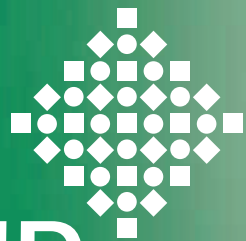
	PROPERTY	UNIT	STANDARD	MEPLAC ES 200	MEPLAC ES F17
PHYSICAL	Density (23°C)	g/cm <sup>3</sup>	ASTM D 792 ISO 1183	1,04	1,18
	MFI	g/10 min	ASTM D 1238 ISO 1133	23	8
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	220/10	220/10
	Shore	-	ASTM D 2240 ISO 868	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,3	0,2
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-
	Filler content	%	ASTM D 2584 ISO 3451	-	17
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,4/0,6	0,2/0,3
	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	170	65
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	100	40	
MECHANICAL	Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	45	-
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-
	Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	75
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	20	2
	Tensile modulus - dry/cond	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	5600
	Flexural modulus - dry/cond	N/mm <sup>2</sup>	ASTM D 790 ISO 178	2350	5200
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	96	-
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	99	110
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	96	103
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	-	-
FR	Flame behaviour	-	UL94	-	-

> MEPLAC ES 200

ABS injection moulding grade. High flow, high impact, good gloss. Natural, all colours.

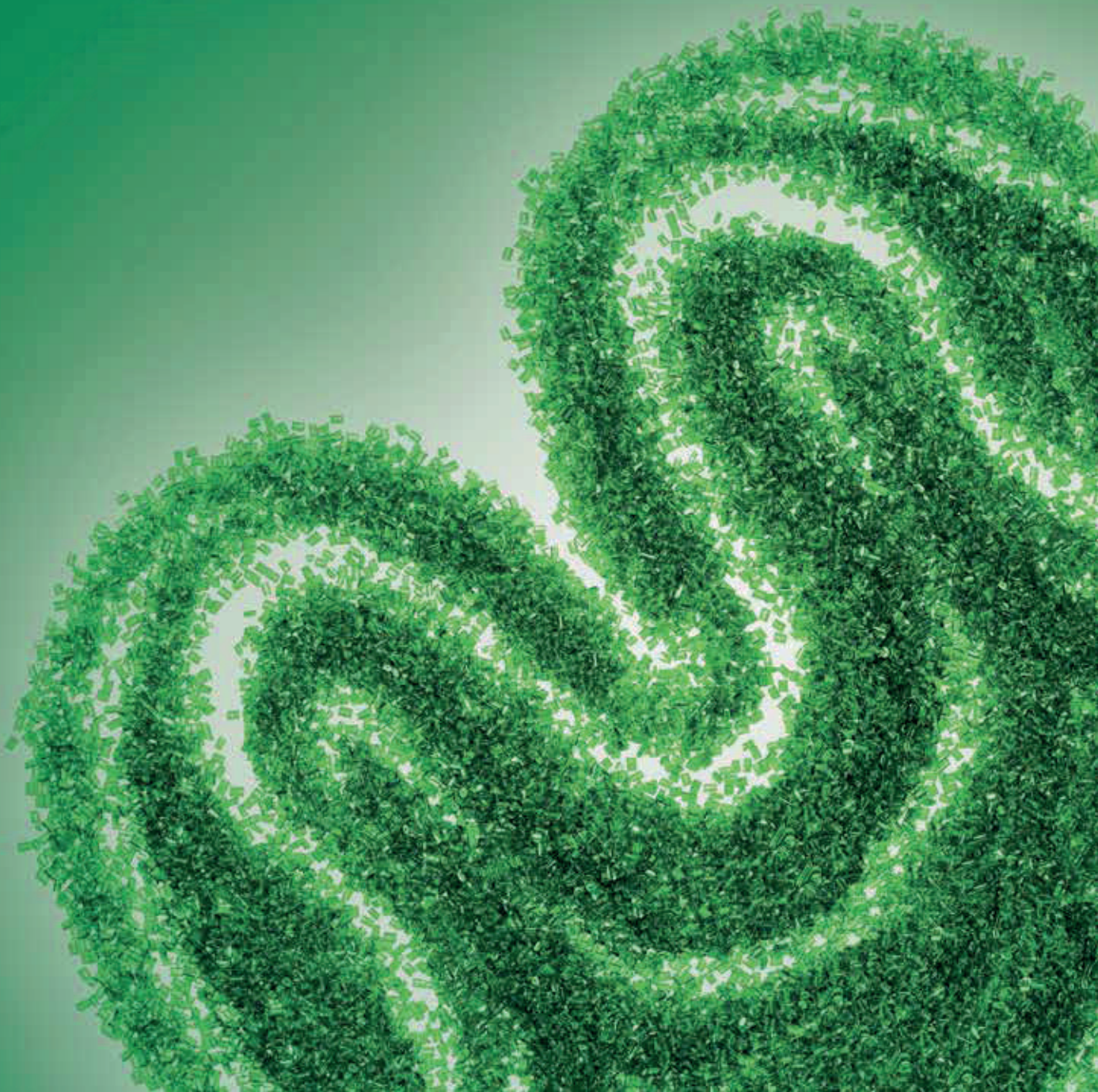
> MEPLAC ES F17

ABS injection moulding grade 17% glass fibres reinforced. Natural, all colours.



**ITI POLAND**

Polymers & Compounds



PROPERTY	UNIT	STANDARD		ITIPLEN IC M15 C10	ITIPLEN IC M15 C15	ITIPLEN IC M15 C20	ITIPLEN IC M15 C30	ITIPLEN IC M15 C40	ITIPLEN IC M15 C50
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	15	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	50	45	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1200	1400	1500	1700	2000	2200
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-

> ITIPLEN IC M15 C10

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C15

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C20

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C30

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C40

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C50

Polypropylene copolymer, injection moulding, with calcium carbonate filler

PROPERTY	UNIT	STANDARD		ITIPLEN IC M20 C10	ITIPLEN IC M20 C15	ITIPLEN IC M20 C20	ITIPLEN IC M20 C30	ITIPLEN IC M20 C40	ITIPLEN IC M20 C50
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	20	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	50	45	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1200	1400	1500	1700	2000	2200
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-

#### > ITIPLEN IC M20 C10

Polypropylene copolymer, injection moulding, with calcium carbonate filler

#### > ITIPLEN IC M20 C15

Polypropylene copolymer, injection moulding, with calcium carbonate filler

#### > ITIPLEN IC M20 C20

Polypropylene copolymer, injection moulding, with calcium carbonate filler

#### > ITIPLEN IC M20 C30

Polypropylene copolymer, injection moulding, with calcium carbonate filler

#### > ITIPLEN IC M20 C40

Polypropylene copolymer, injection moulding, with calcium carbonate filler

#### > ITIPLEN IC M20 C50

Polypropylene copolymer, injection moulding, with calcium carbonate filler

# Itiplen IC T

PROPERTY	UNIT	STANDARD		ITIPLEN IC M10 T10	ITIPLEN IC M10 T15	ITIPLEN IC M10 T20	ITIPLEN IC M10 T30	ITIPLEN IC M10 T40
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (talc)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	40	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1400	1700	1900	2400	2800
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	75	78	83	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

## Itiplen IC T Polypropylene Copolymer

> **ITIPLEN IC M10 T10**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLEN IC M10 T15**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLEN IC M10 T20**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLEN IC M10 T30**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLEN IC M10 T40**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

# Itiplen IC T

PROPERTY	UNIT	STANDARD		ITIPLen IC M15 T10	ITIPLen IC M15 T15	ITIPLen IC M15 T20	ITIPLen IC M15 T30	ITIPLen IC M15 T40
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (talc)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	40	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1400	1700	1900	2400	2800
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	75	78	83	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

## Itiplen IC T Polypropylene Copolymer

> **ITIPLen IC M15 T10**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M15 T15**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M15 T20**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M15 T30**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M15 T40**  
Polypropylene copolymer,  
injection moulding, with  
talc filler



# Itiplen IC T

PROPERTY	UNIT	STANDARD		ITIPLen IC M20 T10	ITIPLen IC M20 T15	ITIPLen IC M20 T20	ITIPLen IC M20 T30	ITIPLen IC M20 T40
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (talc)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	40	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1400	1700	1900	2400	2800
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	75	78	83	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

## Itiplen IC T Polypropylene Copolymer

> **ITIPLen IC M20 T10**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M20 T15**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M20 T20**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M20 T30**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

> **ITIPLen IC M20 T40**  
Polypropylene copolymer,  
injection moulding, with  
talc filler

# Itiplen IC BK

PROPERTY	UNIT	STANDARD		ITIPLEN IC M10 BK	ITIPLEN IC M20 BK	ITIPLEN IC M10 Z50 BK
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,93	0,93	0,93
MFI	g/10 min	ASTM D 1238	ISO 1133	10	20	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	100-200	80-150	300
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1000	1100	900
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	60	65	57
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165
Flame behaviour	-	UL94		-	-	-

## Itiplen IC BK Polypropylene Copolymer

### > ITIPLEN IC M10 BK

Polypropylene copolymer, injection moulding, black

### > ITIPLEN IC M20 BK

Polypropylene copolymer, injection moulding, black

### > ITIPLEN IC M10 Z50 BK

Polypropylene copolymer, injection moulding, black

# Itiplen IH C

PROPERTY	UNIT	STANDARD		ITIPLEN IH M10 C10	ITIPLEN IH M10 C15	ITIPLEN IH M10 C20	ITIPLEN IH M10 C30	ITIPLEN IH M10 C40	ITIPLEN IH M10 C50
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	10	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30	25
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1400	1600	1700	1900	2200	2400
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	80	83	85	90	90	93
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-

## Itiplen IH C Polypropylene Homopolymer

### > ITIPLEN IH M10 C10

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M10 C15

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M10 C20

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M10 C30

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M10 C40

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M10 C50

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

# Itiplen IH C

PROPERTY	UNIT	STANDARD	ITIPLEN IH M15 C10	ITIPLEN IH M15 C15	ITIPLEN IH M15 C20	ITIPLEN IH M15 C30	ITIPLEN IH M15 C40	ITIPLEN IH M15 C50
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792 ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238 ISO 1133	15	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584 ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256 ISO 180/1A	30	30	30	30	30	25
Izod impact (notch / 0°C)	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638 ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638 ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638 ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790 ISO 178	1400	1600	1700	1900	2200	2400
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	80	83	85	90	90	93
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94	-	-	-	-	-	-

## Itiplen IH C Polypropylene Homopolymer

### > ITIPLEN IH M15 C10

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M15 C15

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M15 C20

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M15 C30

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M15 C40

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M15 C50

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

# Itiplen IH C

PROPERTY	UNIT	STANDARD		ITIPLEN IH M20 C10	ITIPLEN IH M20 C15	ITIPLEN IH M20 C20	ITIPLEN IH M20 C30	ITIPLEN IH M20 C40	ITIPLEN IH M20 C50
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	20	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30	25
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1400	1600	1700	1900	2200	2400
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	80	83	85	90	90	93
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-

## Itiplen IH C Polypropylene Homopolymer

### > ITIPLEN IH M20 C10

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M20 C15

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M20 C20

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M20 C30

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M20 C40

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

### > ITIPLEN IH M20 C50

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

# Itiplen IH T

PROPERTY	UNIT	STANDARD		ITIPLEN IH M10 T10	ITIPLEN IH M10 T15	ITIPLEN IH M10 T20	ITIPLEN IH M10 T30	ITIPLEN IH M10 T40
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1600	1900	2200	2800	3300
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	85	87	90	94	96
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

## Itiplen IH T Polypropylene Homopolymer

### > ITIPLEN IH M10 T10

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLEN IH M10 T15

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLEN IH M10 T20

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLEN IH M10 T30

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLEN IH M10 T40

Polypropylene homopolymer, injection moulding, with calcium talc filler

# Itiplen IH T

PROPERTY	UNIT	STANDARD		ITIPILEN IH M15 T10	ITIPILEN IH M15 T15	ITIPILEN IH M15 T20	ITIPILEN IH M15 T30	ITIPILEN IH M15 T40
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1600	1900	2200	2800	3300
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	85	87	90	94	96
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

## Itiplen IH T Polypropylene Homopolymer

### > ITIPILEN IH M15 T10

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPILEN IH M15 T15

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPILEN IH M15 T20

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPILEN IH M15 T30

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPILEN IH M15 T40

Polypropylene homopolymer, injection moulding, with calcium talc filler

# Itiplen IH T

PROPERTY	UNIT	STANDARD		ITIPLen IH M20 T10	ITIPLen IH M20 T15	ITIPLen IH M20 T20	ITIPLen IH M20 T30	ITIPLen IH M20 T40
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1600	1900	2200	2800	3300
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	85	87	90	94	96
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

## Itiplen IH T Polypropylene Homopolymer

### > ITIPLen IH M20 T10

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLen IH M20 T15

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLen IH M20 T20

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLen IH M20 T30

Polypropylene homopolymer, injection moulding, with calcium talc filler

### > ITIPLen IH M20 T40

Polypropylene homopolymer, injection moulding, with calcium talc filler



# Itiplen IH BK

PROPERTY	UNIT	STANDARD		ITIPLEN IH M15 C10	ITIPLEN IH M15 C15	ITIPLEN IH M15 C20	ITIPLEN IH M15 C30
Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	0,93	0,93	0,93	0,93
MFI	g/10 min	ASTM D 1238	ISO 1133	5	10	20	30
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	50-80	50-80	50-80	50-80
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-
Tensile yield strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile break strenght	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile modulus	N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-	-	-	-
Flexural modulus	N/mm <sup>2</sup>	ASTM D 790	ISO 178	1100	1100	1200	1200
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	80	80	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-

## Itiplen IH BK Polypropylene Homopolymer

### > ITIPLEN IH M15 C10

Polypropylene homopolymer, injection moulding, black

### > ITIPLEN IH M15 C15

Polypropylene homopolymer, injection moulding, black

### > ITIPLEN IH M15 C20

Polypropylene homopolymer, injection moulding, black

### > ITIPLEN IH M15 C30

Polypropylene homopolymer, injection moulding, black