

 **Compound**

PROPERTY	UNIT	STANDARD	E6	E6 F30	E6 F40	E6 F50	
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,14	1,36	1,46	1,55
	MFI	g/10 min	ISO 1133	-	-	-	-
	MFI condition	°C/kg	ISO 1133	-	-	-	-
	Shore	-	ISO 868	-	-	-	-
	Shore condition	A/D	ISO 868	-	-	-	-
	Water absorption (24h/23°C)	%	ISO 62	1,9	1,9	1,7	1,5
	Water absorption (saturation)	%	ISO 62	9	6,3/6,9	5,4	4,5/5,1
	Filler content	%	ISO 3451	-	30	40	50
	Mould Shrinkage (parallel)	%	ISO 294-4	0,8/1	0,4	0,1	0,1
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	KJ/m ²	ISO 180/1A	6/30	13/18	14/19	15/20
	Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	5	12	14,5	16
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	80/45	-	-	-
	Tensile yjeld strain - dry/cond	%	ISO 527-2	4,5	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	175/115	200/130	220/160
	Elongation at break - dry/cond	%	ISO 527-2	100/200	3,8/8,5	2,7/4,5	2,6/3,5
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	3000/1100	9300/6200	12500/8700	16000/11000
	Flexural modulus - dry/cond	N/mm ²	ISO 178	2800/1000	8500/5000	11000/7900	15000/9000
THERMAL	HDT (0,455 Mpa)	°C	ISO 75-2	160	210	215	-
	HDT (1820 Mpa)	°C	ISO 75-2	60	210	215	218
	VICAT (10 N)	°C	ISO 306	-	-	-	-
	VICAT (50 N)	°C	ISO 306	200	213	216	218
	Melting temperature (DSC)	°C	ISO 11357	220	220	220	220

> MEYTEL E6

Polyamide 6 normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 F30

Polyamide 6 30% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 F40

Polyamide 6 40% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 F50

Polyamide 6 50% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66

Polyamide 66 normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

PROPERTY	UNIT	STANDARD	E66	E66 F30	E66 F40	E66 F50	
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,14	1,36	1,46	1,56
	MFI	g/10 min	ISO 1133	-	-	-	-
	MFI condition	°C/kg	ISO 1133	-	-	-	-
	Shore	-	ISO 868	-	-	-	-
	Shore condition	A/D	ISO 868	-	-	-	-
	Water absorption (24h/23°C)	%	ISO 62	2,5	2	1,5	1,2
	Water absorption (saturation)	%	ISO 62	9	5,8	4,8	3
	Filler content	%	ISO 3451	-	30	40	50
	Mould Shrinkage (parallel)	%	ISO 294-4	0,9	0,25/1,1	0,1/0,4	0,1/0,3
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	KJ/m ²	ISO 180/1A	5/25	11/15	12/18	13/19
	Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	6	9	12	13
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	85/50	-	-	-
	Tensile yield strain - dry/cond	%	ISO 527-2	5	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	190/130	210/180	235/190
	Elongation at break - dry/cond	%	ISO 527-2	60/120	2,9 / 5	2,4 / 3,5	2,2/3
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	3200/1200	10000/7200	14000/10000	16000/11000
	Flexural modulus - dry/cond	N/mm ²	ISO 178	2800/1000	8600/7000	12000/9500	14000/10000
THERMAL	HDT (0,455 Mpa)	°C	ISO 75-2	220	-	-	-
	HDT (1820 Mpa)	°C	ISO 75-2	75	245	250	255
	VICAT (10 N)	°C	ISO 306	-	-	-	-
	VICAT (50 N)	°C	ISO 306	240	245	250	255
	Melting temperature (DSC)	°C	ISO 11357	264	264	264	264

> MEYTEL E66 F30

Polyamide 66 30% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66 F40

Polyamide 66 40% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66 F50

Polyamide 66 50% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

PROPERTY	UNIT	STANDARD	EH C30	EH C40	EH C50	EH T20	EH T30	
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,13	1,24	1,35	1,04	1,13
	MFI	g/10 min	ISO 1133	10	10	10	10	10
	MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ISO 868	75	75	76	75	76
	Shore condition	A/D	ISO 868	0	0	0	0	0
	Water absorption (24h/23°C)	%	ISO 62	0,02	0,02	0,02	0,02	0,02
	Water absorption (saturation)	%	ISO 62	-	-	-	-	-
	Filler content	%	ISO 3451	30	40	50	20	30
	Mould Shrinkage (parallel)	%	ISO 294-4	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	kJ/m ²	ISO 180/1A	3	3	2,5	3	2,5
	Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	2	2	1,5	2,5	2
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	25	22	18	35	30
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ISO 527-2	50	45	40	30	20
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
THERMAL	Flexural modulus - dry/cond	N/mm ²	ISO 178	2200	2800	3200	2400	3300
	HDT (0,455 Mpa)	°C	ISO 75-2	116	118	120	130	135
	HDT (1820 Mpa)	°C	ISO 75-2	62	63	64	68	72
	VICAT (10 N)	°C	ISO 306	150	151	152	153	154
	VICAT (50 N)	°C	ISO 306	92	97	105	98	100
	Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> MEPLEN EH C30

Polypropylene homopolymer, calcium carbonate 30%. Very good surface finish, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> MEPLEN EH C40

Polypropylene homopolymer, calcium carbonate 40%. Very good surface finish, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> MEPLEN EH C50

Polypropylene homopolymer, calcium carbonate 50%. Very good surface finish, easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH T20

Polypropylene homopolymer with talcum 20%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH T30

Polypropylene homopolymer with talcum 30%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

PROPERTY	UNIT	STANDARD	EH T40	EH F20	EH F30	EH F40	EH F50
Density (23°C)	g/cm ³	ISO 1183	1,23	1,04	1,12	1,21	1,33
MFI	g/10 min	ISO 1133	10	5	5	5	5
MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ISO 868	76	80	80	80	80
Shore condition	A/D	ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ISO 62	0,02	0,07	0,07	0,07	0,07
Water absorption (saturation)	%	ISO 62	-	-	-	-	-
Filler content	%	ISO 3451	40	20	30	40	50
Mould Shrinkage (parallel)	%	ISO 294-4	0,9/1,1	0,3/0,6	0,2/0,4	0,2/0,4	0,1/0,3
Izod impact (notch / 23°C) - dry/cond	KJ/m ²	ISO 180/1A	2,5	8	10	10	11
Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	2	5,5	8	8	8,5
Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	28	70	80	85	95
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	20	5	5	4	3
Tensile modulus - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm ²	ISO 178	4000	4000	5900	8000	10500
HDT (0,455 Mpa)	°C	ISO 75-2	138	155	160	162	165
HDT (1820 Mpa)	°C	ISO 75-2	77	137	145	147	150
VICAT (10 N)	°C	ISO 306	155	160	160	162	165
VICAT (50 N)	°C	ISO 306	102	132	135	140	144
Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> MEPLEN EH T40

Polypropylene homopolymer with talcum 40%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH F20

Polypropylene homopolymer, glass fibre reinforced 20% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EH F30

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

> MEPLEN EH F40

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

> MEPLEN EH F50

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

Meplen® Polypropylene

	PROPERTY	UNIT	STANDARD	EH S30	EH S40	EH S50	EH SF 30	EH TF 30
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,12	1,23	1,35	1,12	1,12
	MFI	g/10 min	ISO 1133	10	10	10	5	8
	MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ISO 868	74	75	76	73	74
	Shore condition	A/D	ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ISO 62	0,07	0,07	0,07	-	-
	Water absorption (saturation)	%	ISO 62	-	-	-	-	-
	Filler content	%	ISO 3451	30	40	50	30	-
	Mould Shrinkage (parallel)	%	ISO 294-4	0,7/0,9	0,6/0,8	0,6/0,8	0,7/0,9	0,8/1,0
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	KJ/m ²	ISO 180/1A	3	2,5	2	8,5	4,8
	Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	2	1,5	1,5	-	-
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	25	20	18	65	55
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ISO 527-2	80	70	50	4	4
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	1800	1900	-	-	-
	Flexural modulus - dry/cond	N/mm ²	ISO 178	1900	2000	2800	3500	3900
THERMAL	HDT (0,455 Mpa)	°C	ISO 75-2	118	120	125	155	-
	HDT (1820 Mpa)	°C	ISO 75-2	58	60	66	128	-
	VICAT (10 N)	°C	ISO 306	151	154	155	160	162
	VICAT (50 N)	°C	ISO 306	91	96	102	115	120
	Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> MEPLEN EH S30

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

> MEPLEN EH S40

Polypropylene homopolymer, glass beads filled 40%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH S50

Polypropylene homopolymer, glass beads filled 50%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH SF 30

Polypropylene homopolymer, fibre glass/glass beads reinforced 30% chemical coupled. Easy molding, good surface finish and mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH TF 30

Polypropylene homopolymer, fibre glass/talcum reinforced 30% chemical coupled. Easy molding, good surface finish and mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized.

	PROPERTY	UNIT	STANDARD	EC T20	EC T30	EC T40	EC B25	EC B40
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,04	1,13	1,23	1,15	1,36
	MFI	g/10 min	ISO 1133	10	10	10	12	12
	MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ISO 868	68	69	70	70	70
	Shore condition	A/D	ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ISO 62	0,02	0,02	0,02	0,05	0,02
	Water absorption (saturation)	%	ISO 62	-	-	-	-	-
	Filler content	%	ISO 3451	20	30	40	25	40
	Mould Shrinkage (parallel)	%	ISO 294-4	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	KJ/m ²	ISO 180/1A	5	5	3	4	3,8
	Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	4	4	3,5	3	2,5
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	24	24	22	20	22
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ISO 527-2	50	30	25	40	30
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Flexural modulus - dry/cond	N/mm ²	ISO 178	2200	2800	3400	1400	1700
THERMAL	HDT (0,455 Mpa)	°C	ISO 75-2	120	130	135	-	-
	HDT (1820 Mpa)	°C	ISO 75-2	60	60	60	55	-
	VICAT (10 N)	°C	ISO 306	148	150	152	-	-
	VICAT (50 N)	°C	ISO 306	80	82	85	80	90
	Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> MEPLEN EC T20

Polypropylene copolymer with talcum 20%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC T30

Polypropylene copolymer with talcum 30%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC T40

Polypropylene copolymer with talcum 40%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC B25

Polypropylene copolymer with BaSO₄ 25%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC B40

Polypropylene copolymer with BaSO₄ 40%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

	PROPERTY	UNIT	STANDARD	EC F20	EC F30	EC F40	EC F50	EC S30
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,04	1,12	1,21	1,33	1,12
	MFI	g/10 min	ISO 1133	5	5	5	5	10
	MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ISO 868	70	72	73	73	67
	Shore condition	A/D	ISO 868	0	0	0	0	0
	Water absorption (24h/23°C)	%	ISO 62	0,07	0,07	0,07	0,07	0,07
	Water absorption (saturation)	%	ISO 62	-	-	-	-	-
	Filler content	%	ISO 3451	20	30	40	50	30
	Mould Shrinkage (parallel)	%	ISO 294-4	0,3/0,6	0,2/0,4	0,2/0,4	0,1/0,3	0,7/0,9
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	KJ/m ²	ISO 180/1A	12	17	18	14,5	3
	Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	9,5	10,5	12	12	2,5
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	62	70	75	85	19
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ISO 527-2	10	5	8		>50
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
THERMAL	Flexural modulus - dry/cond	N/mm ²	ISO 178	3300	5200	8000	9800	1700
	HDT (0,455 Mpa)	°C	ISO 75-2	150	155	157	157	110
	HDT (1820 Mpa)	°C	ISO 75-2	132	140	142	142	50
	VICAT (10 N)	°C	ISO 306	154	155	156	156	148
	VICAT (50 N)	°C	ISO 306	115	120	125	125	80
	Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> MEPLEN EC F20

Polypropylene copolymer, glass fibre reinforced 20% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EC F30

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

> MEPLEN EC F40

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

> MEPLEN EC F50

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

> MEPLEN EC S30

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

	PROPERTY	UNIT	STANDARD	EC S40	EC S50	EH HTP20	EH HTP30	EH HTP40
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,22	1,35	1,04	1,13	1,24
	MFI	g/10 min	ISO 1133	10	10	10	10	10
	MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ISO 868	68	70	76	76	76
	Shore condition	A/D	ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ISO 62	0,07	0,07	0,02	0,02	0,02
	Water absorption (saturation)	%	ISO 62	-	-	-	-	-
	Filler content	%	ISO 3451	40	50	20	30	40
	Mould Shrinkage (parallel)	%	ISO 294-4	0,6/0,8	0,6/0,8	0,9/1,1	0,8/1,0	0,7/0,9
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	KJ/m ²	ISO 180/1A	3,5	3	3	2,5	2,5
	Izod impact (notch / 0°C) - dry/cond	KJ/m ²	ISO 180/1A	2,5	2	2,5	2	2
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	17	15	35	33	37
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ISO 527-2	>50	>50	20	18	15
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Flexural modulus - dry/cond	N/mm ²	ISO 178	1800	2300	3300	4100	5000
THERMAL	HDT (0,455 Mpa)	°C	ISO 75-2	115	120	-	-	-
	HDT (1820 Mpa)	°C	ISO 75-2	54	58	76	80	90
	VICAT (10 N)	°C	ISO 306	149	150	-	-	-
	VICAT (50 N)	°C	ISO 306	88	95	108	110	113
	Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> MEPLEN EC S40

Polypropylene copolymer, glass beads filled 40%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EC S50

Polypropylene copolymer, glass beads filled 50%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH HTP20

Polypropylene homopolymer with talcum 20% high performances. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH HTP30

Polypropylene homopolymer with talcum 30% high performances. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH HTP40

Polypropylene homopolymer with talcum 40% high performances. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.



PROPERTY	UNIT	STANDARD	IS 110 BK	IS 140 BK	IS 200 BK	
Density (23°C)	g/cm ³	ISO 1183	1,05	1,04	1,05	
MFI	g/10 min	ISO 1133	10	12	15	
MFI condition	°C/kg	ISO 1133	220/10	220/10	220/10	
Shore	-	ISO 868	75	75	75	
Shore condition	A/D	ISO 868	D	D	D	
Water absorption (24h/23°C)	%	ISO 62	-	-	-	
Water absorption (saturation)	%	ISO 62	-	-	-	
Filler content	%	ISO 3451	-	-	-	
Mould Shrinkage (parallel)	%	ISO 294-4	0,5/0,7	0,5/0,7	0,5/0,7	
PHYSICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	11	14	20
	Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	-	-	1
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-
	Tensile yjeld strain - dry/cond	%	ISO 527-2	35	40	45
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-
	Elongation at break - dry/cond	%	ISO 527-2	10	20	30
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	2500	2400	2100
MECHANICAL	Flexural modulus - dry/cond	N/mm ²	ISO 178	2200	2100	1900
	HDT (0,455 Mpa)	°C	ISO 75-2	-	-	-
THERMAL	HDT (1820 Mpa)	°C	ISO 75-2	85	84	82
	VICAT (10 N)	°C	ISO 306	100	100	-
	VICAT (50 N)	°C	ISO 306	92	92	90
	Melting temperature (DSC)	°C	ISO 11357	-	-	-

> 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.



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PROPERTY	UNIT	STANDARD	I18 F40 BK	I18 F50 BK	IS Z70 BK	IS Z90 BK
Density (23°C)	g/cm ³	ISO 1183	1,46	1,55	1,05	1,05
MFI	g/10 min	ISO 1133	-	-	7	7
MFI condition	°C/kg	ISO 1133	-	-	200/5	200/5
Shore	-	ISO 868	-	-	75	75
Shore condition	A/D	ISO 868	-	-	D	D
Water absorption (24h/23°C)	%	ISO 62	1,6	1,4	-	-
Water absorption (saturation)	%	ISO 62	5,1	4,5	-	-
Filler content	%	ISO 3451	40	50	-	-
Mould Shrinkage (parallel)	%	ISO 294-4	0,3	1,15	0,3/0,7	0,3/0,7
Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	80/100	100/130	7	9
Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	8,7	10,5	-	-
Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-
Tensile yjield strain - dry/cond	%	ISO 527-2	-	-	21	18
Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	185/155	215/185	-	-
Elongation at break - dry/cond	%	ISO 527-2	2,55	2	30	40
Tensile modulus - dry/cond	N/mm ²	ISO 527-2	10600/7200	12500/10000	2300	1800
Flexural modulus - dry/cond	N/mm ²	ISO 178	9100/6300	11000/8200	2100	2000
HDT (0,455 Mpa)	°C	ISO 75-2	227	230	-	-
HDT (1820 Mpa)	°C	ISO 75-2	230	235	78	74
VICAT (10 N)	°C	ISO 306	-	-	-	-
VICAT (50 N)	°C	ISO 306	235	240	85	82
Melting temperature (DSC)	°C	ISO 11357	260	260	-	-

> **ECO MEYTEL I18 F40 BK**
Polyamide copolymer glass fibre reinforced 40%. General purpose, black. H: heat stabilized.

> **ECO MEYTEL I18 F50 BK**
Polyamide copolymer glass fibre reinforced 50%. General purpose, black. H: heat stabilized.

> **ECO MEPRON IS Z70**
Polystyrene standard impact modified for injection moulding. General porpouse. Natural, all colour.

> **ECO MEPRON IS Z90**
Polystyrene standard high impact for injection moulding. General porpouse. Natural, all colour.



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Eco Meplen® Polypropylene

Eco Meytel® Polyamide

PROPERTY	UNIT	STANDARD	IC F50	IC S30	I6 BK	I6 F20 BK	I6 F30 BK	
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,33	1,12	1,13	1,28	1,36
	MFI	g/10 min	ISO 1133	9	10	-	-	-
	MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	-	-	-
	Shore	-	ISO 868	76	74	-	-	-
	Shore condition	A/D	ISO 868	0	0	-	-	-
	Water absorption (24h/23°C)	%	ISO 62	-	-	1,9	2,3	1,9
	Water absorption (saturation)	%	ISO 62	-	-	9	7,2	6,3
	Filler content	%	ISO 3451	50	30	-	20	30
	Mould Shrinkage (parallel)	%	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	ISO 180/1A	11	3,5	7/20	6/8	7/8
	Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	-	-	3	4	5
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	80	19	55	-	-
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	4	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	95/75	120/90
	Elongation at break - dry/cond	%	ISO 527-2	4	60	80/150	5/10	4/8
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	11000	1800	2400/1100	6000/4500	7500/5800
THERMAL	Flexural modulus - dry/cond	N/mm ²	ISO 178	8600	1600	2200/1000	4800/3500	7300/4800
	HDT (0,455 Mpa)	°C	ISO 75-2	157	110	150	200	208
	HDT (1820 Mpa)	°C	ISO 75-2	140	50	50	195	205
	VICAT (10 N)	°C	ISO 306	155	143	-	-	-
	VICAT (50 N)	°C	ISO 306	135	83	190	205	210
Melting temperature (DSC)	°C	ISO 11357	165	165	220	220	220	

> 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.



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Eco Meytel® Polyamide

PROPERTY	UNIT	STANDARD	I6 F40 BK	I6 F50 BK	I66 BK	I66 F20 BK	I66 F30 BK	
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,46	1,55	1,13	1,28	1,36
	MFI	g/10 min	ISO 1133	-	-	-	-	-
	MFI condition	°C/kg	ISO 1133	-	-	-	-	-
	Shore	-	ISO 868	-	-	-	-	-
	Shore condition	A/D	ISO 868	-	-	-	-	-
	Water absorption (24h/23°C)	%	ISO 62	1,7	1,5	2,5	2,2	2
	Water absorption (saturation)	%	ISO 62	5,2	4,5	8	6,7	6,1
	Filler content	%	ISO 3451	40	50	-	20	30
	Mould Shrinkage (parallel)	%	ISO 294-4	0,2	0,1	0,8	0,6	0,5
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	11/16	13/18	4,5/20	5,5/7,5	6/7
	Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	9	11	4	3,5	4,5
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	-	-	65	-	-
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	4	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	180/150	210/180	-	105/85	130/100
	Elongation at break - dry/cond	%	ISO 527-2	3/6	2/4	40/80	2,9/7	2,5/4
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	10500/7000	15000/10000	2800/1200	6300/4800	8800/7100
THERMAL	Flexural modulus - dry/cond	N/mm ²	ISO 178	9000/6200	13000/8500	2700/1100	5000/3800	7600/5800
	HDT (0,455 Mpa)	°C	ISO 75-2	213	215	218	250	250
	HDT (1820 Mpa)	°C	ISO 75-2	210	212	70	240	245
	VICAT (10 N)	°C	ISO 306	-	-	-	-	-
	VICAT (50 N)	°C	ISO 306	212	214	235	240	242
	Melting temperature (DSC)	°C	ISO 11357	220	220	260	260	260

> ECO MEYTEL I6 F40 BK

Polyamide 6 glass fibre reinforced 40%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I6 F50 BK

Polyamide 6 glass fibre reinforced 50%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I66 BK

Polyamide 66 general purpose. Black.

> ECO MEYTEL I66 F20 BK

Polyamide 66 glass fibre reinforced 20%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I66 F30 BK

Polyamide 66 glass fibre reinforced 30%. General purpose, black. H: heat stabilized.



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Eco Meytel® Polyamide

PROPERTY	UNIT	STANDARD	I66 F40 BK	I66 F50 BK	I18 F15 BK	I18 F20 BK	I18 F30 BK	
PHYSICAL	Density (23°C)	g/cm ³	ISO 1183	1,46	1,57	1,25	1,28	1,36
	MFI	g/10 min	ISO 1133	-	-	-	-	-
	MFI condition	°C/kg	ISO 1133	-	-	-	-	-
	Shore	-	ISO 868	-	-	-	-	-
	Shore condition	A/D	ISO 868	-	-	-	-	-
	Water absorption (24h/23°C)	%	ISO 62	1,5	1,2	2,4	2,3	2,1
	Water absorption (saturation)	%	ISO 62	5	4	7	7	6,5
	Filler content	%	ISO 3451	40	50	15	20	30
	Mould Shrinkage (parallel)	%	ISO 294-4	0,4	0,2	0,5	0,5	0,4
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	75/90	90/120	50/70	5/7	65/75
	Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	8,5	10	3,5	3,5	4,8
	Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	190/160	220/190	95/75	90/70	100/90
	Elongation at break - dry/cond	%	ISO 527-2	2/3,5	2	4/8	4/6	3/4
	Tensile modulus - dry/cond	N/mm ²	ISO 527-2	10800/7300	15300/10500	5000/4000	5500/4600	7500/5900
	Flexural modulus - dry/cond	N/mm ²	ISO 178	9300/6500	13300/8800	4000/3000	4500/3600	6200/5600
THERMAL	HDT (0,455 Mpa)	°C	ISO 75-2	250	250	225	225	225
	HDT (1820 Mpa)	°C	ISO 75-2	250	255	210	220	225
	VICAT (10 N)	°C	ISO 306	-	-	-	-	-
	VICAT (50 N)	°C	ISO 306	244	245	215	225	228
	Melting temperature (DSC)	°C	ISO 11357	260	260	260	260	260

> ECO MEYTEL I66 F40 BK

Polyamide 66 glass fibre reinforced 40%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I66 F50 BK

Polyamide 66 glass fibre reinforced 50%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I18 F15 BK

Polyamide copolymer glass fibre reinforced 15%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I18 F20 BK

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

> ECO MEYTEL I18 F30 BK

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



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PROPERTY	UNIT	STANDARD	I18 F40 BK	I18 F50 BK	IS Z70 BK	IS Z90 BK
Density (23°C)	g/cm ³	ISO 1183	1,46	1,55	1,05	1,05
MFI	g/10 min	ISO 1133	-	-	?	?
MFI condition	°C/kg	ISO 1133	-	-	200/5	200/5
Shore	-	ISO 868	-	-	75	75
Shore condition	A/D	ISO 868	-	-	D	D
Water absorption (24h/23°C)	%	ISO 62	1,6	1,4	-	-
Water absorption (saturation)	%	ISO 62	5,1	4,5	-	-
Filler content	%	ISO 3451	40	50	-	-
Mould Shrinkage (parallel)	%	ISO 294-4	0,3	1,15	0,3/0,7	0,3/0,7
Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	80/100	100/130	?	9
Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	8,7	10,5	-	-
Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	21	18
Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	185/155	215/185	-	-
Elongation at break - dry/cond	%	ISO 527-2	2,55	2	30	40
Tensile modulus - dry/cond	N/mm ²	ISO 527-2	10600/7200	12500/10000	2300	1800
Flexural modulus - dry/cond	N/mm ²	ISO 178	9100/6300	11000/8200	2100	2000
HDT (0,455 Mpa)	°C	ISO 75-2	227	230	-	-
HDT (1820 Mpa)	°C	ISO 75-2	230	235	78	74
VICAT (10 N)	°C	ISO 306	-	-	-	-
VICAT (50 N)	°C	ISO 306	235	240	85	82
Melting temperature (DSC)	°C	ISO 11357	260	260	-	-

> ECO MEYTEL I18 F40 BK

Polyamide copolymer glass fibre reinforced 40%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I18 F50 BK

Polyamide copolymer glass fibre reinforced 50%. General purpose, black. H: heat stabilized.

> ECO MEPRON IS Z70

Polystyrene standard impact modified for injection moulding. General porpouse. Natural, all colour.

> ECO MEPRON IS Z90

Polystyrene standard high impact for injection moulding. General porpouse. Natural, all colour.



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Eco Meplen® Polypropylene

PROPERTY	UNIT	STANDARD	IC M10 BK	IC M20 BK	IH C20	IH C30	IH C40
Density (23°C)	g/cm3	ISO 1183	0,94	0,94	1,04	1,13	1,23
MFI	g/10 min	ISO 1133	10	20	10	10	10
MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ISO 868	66	68	70	72	72
Shore condition	A/D	ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ISO 62	0,02	0,02	0,02	0,02	0,02
Water absorption (saturation)	%	ISO 62	-	-	-	-	-
Filler content	%	ISO 3451	-	-	20	30	40
Mould Shrinkage (parallel)	%	ISO 294-4	-	-	1,4/1,8	1,2/1,6	1,1/1,5
Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	8	8	3	3	3
Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm2	ISO 527-2	20	22	25	23	20
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	40	40	40	30	20
Tensile modulus - dry/cond	N/mm2	ISO 527-2	1100	1150	1900	2200	2800
Flexural modulus - dry/cond	N/mm2	ISO 178	1000	1100	1800	2100	2700
HDT (0,455 Mpa)	°C	ISO 75-2	95	100	110	112	115
HDT (1820 Mpa)	°C	ISO 75-2	-	-	58	60	61
VICAT (10 N)	°C	ISO 306	145	150	146	148	150
VICAT (50 N)	°C	ISO 306	60	70	85	90	95
Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

PHYSICAL

MECHANICAL

THERMAL



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> **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.

Eco Meplen® Polypropylene

PROPERTY	UNIT	STANDARD	IH T20	IH T30	IH T40	IH F30	IH F40
Density (23°C)	g/cm ³	ISO 1183	1,04	1,13	1,23	1,12	1,21
MFI	g/10 min	ISO 1133	10	10	10	9	9
MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ISO 868	74	75	76	78	78
Shore condition	A/D	ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ISO 62	0,02	0,02	0,02	0,07	0,07
Water absorption (saturation)	%	ISO 62	-	-	-	-	-
Filler content	%	ISO 3451	20	30	40	30	40
Mould Shrinkage (parallel)	%	ISO 294-4	1,1/1,5	0,9/1,3	0,7/1,1	0,1/0,4	0,1/0,3
Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	3	3	2,5	10	10
Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	30	28	26	78	80
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	20	20	20	5	3
Tensile modulus - dry/cond	N/mm ²	ISO 527-2	2300	2900	3400	5800	7000
Flexural modulus - dry/cond	N/mm ²	ISO 178	2000	2800	3500	5300	6500
HDT (0,455 Mpa)	°C	ISO 75-2	120	125	130	155	157
HDT (1820 Mpa)	°C	ISO 75-2	65	70	75	140	145
VICAT (10 N)	°C	ISO 306	150	150	150	158	158
VICAT (50 N)	°C	ISO 306	90	90	105	130	130
Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> 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.



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Eco Meplen® Polypropylene

PROPERTY	UNIT	STANDARD	IH F50	IH S30	IC C20	IC C30	IC C40
Density (23°C)	g/cm ³	ISO 1183	1,33	1,12	1,05	1,12	1,23
MFI	g/10 min	ISO 1133	9	10	10	10	10
MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ISO 868	78	74	70	72	72
Shore condition	A/D	ISO 868	0	0	0	0	0
Water absorption (24h/23°C)	%	ISO 62	0,07	-	-	-	-
Water absorption (saturation)	%	ISO 62	-	-	-	-	-
Filler content	%	ISO 3451	50	30	20	30	40
Mould Shrinkage (parallel)	%	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	ISO 180/1A	8	2,5	4	4	3,5
Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	82	20	24	22	19
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	3	50	45	35	25
Tensile modulus - dry/cond	N/mm ²	ISO 527-2	9800	1700	1800	2100	2600
Flexural modulus - dry/cond	N/mm ²	ISO 178	9000	1800	1600	1900	2400
HDT (0,455 Mpa)	°C	ISO 75-2	162	115	100	102	105
HDT (1820 Mpa)	°C	ISO 75-2	145	55	56	58	59
VICAT (10 N)	°C	ISO 306	162	148	140	145	148
VICAT (50 N)	°C	ISO 306	142	88	80	85	90
Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

> 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.



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



Eco Meplen® Polypropylene

PROPERTY	UNIT	STANDARD	IC T20	IC T30	IC T40	IC F30	IC F40
Density (23°C)	g/cm ³	ISO 1183	1,04	1,13	1,23	1,12	1,21
MFI	g/10 min	ISO 1133	10	10	10	9	9
MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ISO 868	74	75	76	76	76
Shore condition	A/D	ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ISO 62	-	-	-	-	-
Filler content	%	ISO 3451	20	30	40	30	40
Mould Shrinkage (parallel)	%	ISO 294-4	1,1/1,5	0,9/1,3	0,7/1,1	0,1/0,4	0,1/0,3
Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	4	4	3,5	9	10
Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	23	23	21	68	75
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	40	30	20	10	6
Tensile modulus - dry/cond	N/mm ²	ISO 527-2	2200	2800	3200	5200	6100
Flexural modulus - dry/cond	N/mm ²	ISO 178	2000	2600	3000	4200	5200
HDT (0,455 Mpa)	°C	ISO 75-2	115	120	125	150	152
HDT (1820 Mpa)	°C	ISO 75-2	62	67	72	130	135
VICAT (10 N)	°C	ISO 306	145	147	150	142	145
VICAT (50 N)	°C	ISO 306	85	90	95	120	125
Melting temperature (DSC)	°C	ISO 11357	165	165	165	165	165

PHYSICAL

MECHANICAL

THERMAL



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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.

Eco Meplen® Polypropylene

Eco Meytel® Polyamide

PROPERTY	UNIT	STANDARD	IC F50	IC S30	I6 BK	I6 F20 BK	I6 F30 BK
Density (23°C)	g/cm ³	ISO 1183	1,33	1,12	1,13	1,28	1,36
MFI	g/10 min	ISO 1133	9	10	-	-	-
MFI condition	°C/kg	ISO 1133	230/2,16	230/2,16	-	-	-
Shore	-	ISO 868	76	74	-	-	-
Shore condition	A/D	ISO 868	D	D	-	-	-
Water absorption (24h/23°C)	%	ISO 62	-	-	1,9	2,3	1,9
Water absorption (saturation)	%	ISO 62	-	-	9	7,2	6,3
Filler content	%	ISO 3451	50	30	-	20	30
Mould Shrinkage (parallel)	%	ISO 294-4	0,1/0,3	0,8/1,0	1,3/1,7	0,35	0,2
Izod impact (notch / 23°C) - dry/cond	J/m	ISO 180/1A	11	3,5	7/20	6/8	7/8
Izod impact (notch / 0°C) - dry/cond	J/m	ISO 180/1A	-	-	3	4	5
Tensile yield strenght - dry/cond	N/mm ²	ISO 527-2	80	19	55	-	-
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	4	-	-
Tensile break strenght - dry/cond	N/mm ²	ISO 527-2	-	-	-	95/75	120/90
Elongation at break - dry/cond	%	ISO 527-2	4	60	80/150	5/10	4/8
Tensile modulus - dry/cond	N/mm ²	ISO 527-2	11000	1800	2400/1100	6000/4500	7500/5800
Flexural modulus - dry/cond	N/mm ²	ISO 178	8600	1600	2200/1000	4800/3500	7300/4800
HDT (0,455 Mpa)	°C	ISO 75-2	157	110	150	200	208
HDT (1820 Mpa)	°C	ISO 75-2	140	50	50	195	205
VICAT (10 N)	°C	ISO 306	155	143	-	-	-
VICAT (50 N)	°C	ISO 306	135	83	190	205	210
Melting temperature (DSC)	°C	ISO 11357	165	165	220	220	220

> 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.



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