

 **Compound**

PROPERTY	UNIT	STANDARD	EH C30	EH C40	EH C50	EH T20	EH T30	
PHYSICAL	Density (23°C)	g/cm <sup>3</sup>	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	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	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 <sup>2</sup>	ISO 180/1A	3	3	2,5	3	2,5
	Izod impact (notch / 0°C) - dry/cond	kJ/m <sup>2</sup>	ISO 180/1A	2	2	1,5	2,5	2
	Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	25	22	18	35	30
	Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ISO 527-2	50	45	40	30	20
	Tensile modulus - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
THERMAL	Flexural modulus - dry/cond	N/mm <sup>2</sup>	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
PHYSICAL	Density (23°C)	ISO 1183	1,23	1,04	1,12	1,21	1,33
	MFI	ISO 1133	10	5	5	5	5
	MFI condition	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	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
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	ISO 180/1A	2,5	8	10	10	11
	Izod impact (notch / 0°C) - dry/cond	ISO 180/1A	2	5,5	8	8	8,5
	Tensile yield strenght - dry/cond	ISO 527-2	28	70	80	85	95
	Tensile yield strain - dry/cond	ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	ISO 527-2	20	5	5	4	3
	Tensile modulus - dry/cond	ISO 527-2	-	-	-	-	-
	Flexural modulus - dry/cond	ISO 178	4000	4000	5900	8000	10500
THERMAL	HDT (0,455 Mpa)	ISO 75-2	138	155	160	162	165
	HDT (1820 Mpa)	ISO 75-2	77	137	145	147	150
	VICAT (10 N)	ISO 306	155	160	160	162	165
	VICAT (50 N)	ISO 306	102	132	135	140	144
	Melting temperature (DSC)	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, D: detergent stabilization.

**> 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.

PROPERTY	UNIT	STANDARD	EH S30	EH S40	EH S50	EH SF 30	EH TF 30
Density (23°C)	g/cm <sup>3</sup>	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
Izod impact (notch / 23°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	3	2,5	2	8,5	4,8
Izod impact (notch / 0°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	2	1,5	1,5	-	-
Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	25	20	18	65	55
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	80	70	50	4	4
Tensile modulus - dry/cond	N/mm <sup>2</sup>	ISO 527-2	1800	1900	-	-	-
Flexural modulus - dry/cond	N/mm <sup>2</sup>	ISO 178	1900	2000	2800	3500	3900
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
Density (23°C)	g/cm <sup>3</sup>	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
Izod impact (notch / 23°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	5	5	3	4	3,8
Izod impact (notch / 0°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	4	4	3,5	3	2,5
Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	24	24	22	20	22
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	50	30	25	40	30
Tensile modulus - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm <sup>2</sup>	ISO 178	2200	2800	3400	1400	1700
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 BaSO<sub>4</sub> 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 BaSO<sub>4</sub> 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
Density (23°C)	g/cm <sup>3</sup>	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	D	D	D	D	D
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
Izod impact (notch / 23°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	12	17	18	14,5	3
Izod impact (notch / 0°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	9,5	10,5	12	12	2,5
Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	62	70	75	85	19
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	10	5	8		>50
Tensile modulus - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm <sup>2</sup>	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
Density (23°C)	g/cm <sup>3</sup>	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
Izod impact (notch / 23°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	3,5	3	3	2,5	2,5
Izod impact (notch / 0°C) - dry/cond	KJ/m <sup>2</sup>	ISO 180/1A	2,5	2	2,5	2	2
Tensile yield strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	17	15	35	33	37
Tensile yield strain - dry/cond	%	ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ISO 527-2	>50	>50	20	18	15
Tensile modulus - dry/cond	N/mm <sup>2</sup>	ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm <sup>2</sup>	ISO 178	1800	2300	3300	4100	5000
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.