

POLYblend

45FS GF20

PC/ABS-blend

Glass fibre-reinforced

Property	Value	Unit	Standard
Density	1,22	g/cm ³	ISO 1183
MFI at 240°C/5kg	8	g/10min	ISO 1133
Flexural modulus at +23°C	5700	MPa	ISO 178
Maximum flexural strength	132	MPa	ISO 178
Maximum tensile strength	85	MPa	ISO 527-2
Elongation at break		%	ISO 527-2
Elongation at yield	5,5	%	ISO 527-2
Impact strength			
Notched Charpy at +23°C	7	kJ/m ²	ISO 179
Notched Charpy at -30°C	6	kJ/m ²	ISO 179
Unnotched Charpy at +23°C	20	kJ/m ²	ISO 179
Unnotched Charpy at -30°C	20	kJ/m ²	ISO 179
Filler content	20	±2%	ISO 3451
Heat Distortion Temperature			
HDT 120°C/h at 455kPa (B)	107/107	°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)	100/99	°C	ISO 75/1
Softening temperature			
Vicat 50°/h at 9,81N (A)	118	°C	ISO 306
Vicat 50°C/h at 49,05N (B)	105	°C	ISO 306
Ball pressure test	100	°C	IEC 335-1
Flammability			
GWT at 2 mm	750	°C	IEC 695-2-1
UL94 at 1.6 mm	HB*		UL94
Mould shrinkage (with flow)	0,2-0,4	%	ISO 294-4
Mould shrinkage (across flow)	0,2-0,4	%	ISO 294-4
Coefficient of linear thermal expansion (CLTE)	30-35	10E-6/°C	Polykemi

*UL file no. E122538
HDT (annealed/unannealed)

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