

Technical Data Sheet - Preliminary Product



ALTECH PE-HD A 2040/500 GF40

Base Polymer	Polyethylene High Density
Filler/Additive System	40 % glass fibres
Typical Applications	various

Processing Injection Moulding	melt temperature 200-280 °C mould temperature 20-60 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Strength	45	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Strength	30	MPa	ISO 527
Tensile Elongation at Break	9	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	90	°C	ISO 306
HDT / A (1,8 MPa)	75	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	5	cm ³ /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	21.6	kg	-
Shrinkage (lengthwise, 24h)	1.7 - 2.1	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.9	%	ISO 294-4
Physical Properties			
Density	1250	kg/m ³	ISO 1183