

Technical Data Sheet



ALTECH PE-HD A 2020/506 GF20

Base Polymer	Polyethylene High Density
Filler/Additive System	20 % 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 Stress (3.5% Strain)	42	MPa	ISO 178
Tensile Modulus	2700	MPa	ISO 527
Tensile Strength	35	MPa	ISO 527
Tensile Elongation at Break	9	%	ISO 527
Impact Strength (Charpy, 23°C)	43	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	16	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	13	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	90	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	3.5	cm ³ /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	21.6	kg	-
Shrinkage (lengthwise, 24h)	1.5 - 1.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.2 - 0.6	%	ISO 294-4
Physical Properties			
Density	1080	kg/m ³	ISO 1183