

Technical Data Sheet



ALTECH PE-HD A 2010/506 GF10

Base Polymer	Polyethylene High Density
Filler/Additive System	10 % glass fibres
Special Features	heat stabilised,easy release (demoulding),good flow,injection moulding grade
Market Segment	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	1400	MPa	ISO 178
Flexural Stress (3.5% Strain)	25	MPa	ISO 178
Tensile Modulus	1800	MPa	ISO 527
Tensile Stress at Yield	25	MPa	ISO 527
Tensile Elongation at Yield	2.7	%	ISO 527
Tensile Elongation at Break	40	%	ISO 527
Impact Strength (Charpy, 23°C)	50	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)	6	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	71	°C	ISO 306
HDT / A (1,8 MPa)	72	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	40	cm ³ /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	21.6	kg	-
Shrinkage (lengthwise, 24h)	0.6 - 0.8	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1010	kg/m ³	ISO 1183