

Technical Data Sheet



ALTECH PP-H A 2010/550 GF10 CP DS

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	10 % glass fibres
Colour	natural color
Special Features	chemically coupled, detergent solution stabilised, heat stabilised, easy release (demoulding)
Market Segment	building and construction
Typical Applications	injection moulded parts, domestic appliances

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-120 °C for 2-3 h in an air circulating dryer 80-120 °C for 2-4 h dependant on moisture content max. moisture content <0,10 %
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Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2500	MPa	ISO 178
Flexural Strength	75	MPa	ISO 178
Tensile Modulus	2800	MPa	ISO 527
Tensile Strength	50	MPa	ISO 527
Tensile Elongation at Break	5.5	%	ISO 527
Impact Strength (Charpy, 23°C)	47	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	18	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	115	°C	ISO 306
HDT / A (1,8 MPa)	104	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	2	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.7 - 0.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	970	kg/m ³	ISO 1183