

Technical Data Sheet



ALTECH PP-H A 2030/758 GF30 CP

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	30 % glass fibres,laser optimisation
Colour	violet
Special Features	various,chemically coupled,high heat stabilised,high stiffness,high toughness,laser transparent
Typical Applications	various,housings

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	5200	MPa	ISO 178
Flexural Strength	120	MPa	ISO 178
Tensile Modulus	6800	MPa	ISO 527
Tensile Strength at Break	85	MPa	ISO 527
Tensile Elongation at Break	3.9	%	ISO 527
Impact Strength (Charpy, 23°C)	60	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	134	°C	ISO 306
HDT / A (1,8 MPa)	148	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	1	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.1 - 0.3	%	ISO 294-4

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Physical Properties

Density	1130	kg/m ³	ISO 1183
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Optical Properties

Spectral Transmission 980nm (d=1,0mm)	73	%	ISO 13468
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