

Technical Data Sheet



ALTECH PP-H A 1000/140 FR GY1071-14LS

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	laser optimisation
Colour	grey
Special Features	laser etchable (dark etching), processing stabilised, easy release (demoulding), heat stabilised
Market Segment	electrical and electronic
Application Area	injection moulded parts, clothing / fasteners, electrical components
Typical Applications	functional components, 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 200-240 °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	1400	MPa	ISO 178
Flexural Stress (3.5% Strain)	33	MPa	ISO 178
Tensile Modulus	1400	MPa	ISO 527
Tensile Stress at Yield	32	MPa	ISO 527
Tensile Elongation at Yield	9.9	%	ISO 527
Tensile Elongation at Break	105	%	ISO 527
Impact Strength (Charpy, 23°C)	130	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	85	°C	ISO 306
HDT / A (1,8 MPa)	58	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	7	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.5 - 1.9	%	ISO 294-4
Shrinkage (lateral, 24h)	1.4 - 1.8	%	ISO 294-4
Physical Properties			
Density	960	kg/m ³	ISO 1183