

Technical Data Sheet



ALTECH PP-H A 1000/120 UV GY1076-12LWA

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	light stabiliser, laser optimisation
Colour	grey
Special Features	laser absorbing, impact modified, injection moulding grade, UV stabilised, easy release (demoulding), heat stabilised
Typical Applications	various, injection moulded parts

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	1200	MPa	ISO 178
Flexural Stress (3.5% Strain)	26	MPa	ISO 178
Tensile Modulus	1150	MPa	ISO 527
Tensile Stress at Yield	28	MPa	ISO 527
Tensile Elongation at Yield	12.5	%	ISO 527
Impact Strength (Charpy, 23°C)	120	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	15	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	77	°C	ISO 306
HDT / A (1,8 MPa)	60	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	30	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.6	%	ISO 294-4
Physical Properties			
Density	920	kg/m ³	ISO 1183