

Technical Data Sheet



ALTECH PP-H A 2020/750 GF20

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % glass fibres
Colour	black,natural color
Special Features	processing stabilised,high stiffness,chemically coupled,heat stabilised
Market Segment	electrical and electronic,building and construction,Automotive
Application Area	electrical components,exterior parts,cooling system,interior decoration / finishing
Typical Applications	housings,fixing elements,functional components,radiator grilles
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 %
Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3900	MPa	ISO 178
Flexural Strength	105	MPa	ISO 178
Tensile Modulus	4800	MPa	ISO 527
Tensile Strength at Break	80	MPa	ISO 527
Tensile Elongation at Break	3.4	%	ISO 527
Impact Strength (Charpy, 23 °C)	45	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	25	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)	5.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	130	°C	ISO 306
HDT / A (1,8 MPa)	140	°C	ISO 75-1/-2
DSC (Melt Point)	169	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	5	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1030	kg/m ³	ISO 1183