

Technical Data Sheet



ALTECH ABS A 2020/100 GF 20

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	20 % glass fibres
Colour	black
Special Features	injection moulding grade,processing stabilised
Market Segment	building and construction,packaging
Application Area	injection moulded parts,housings

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 3-6 h dependant on moisture content max. moisture content <0,20 %
Processing Injection Moulding	melt temperature 220-260 °C mould temperature 50-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	5800	MPa	ISO 178
Flexural Strength	105	MPa	ISO 178
Tensile Modulus	5800	MPa	ISO 527
Tensile Strength at Break	70	MPa	ISO 527
Tensile Elongation at Break	1.6	%	ISO 527
Impact Strength (Charpy, 23°C)	18	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	18	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	103	°C	ISO 306
HDT / A (1,8 MPa)	102	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	6	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1180	kg/m ³	ISO 1183