

Technical Data Sheet



ALCOM HP PA6 7010 FR SB1000-20

Base Polymer	Polyamide 6
Filler/Additive System	carbon fibres
Special Features	heat stabilised, impact modified, halogen-free flame retardant, injection moulding grade, high stiffness, electrostatically dissipating
Market Segment	electrical and electronic, Machinery
Typical Applications	injection moulded parts

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C for 2-12 h dependant on moisture content
Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	7600 / 4800	MPa	ISO 178
Flexural Strength	165 / 105	MPa	ISO 178
Tensile Modulus	8700 / 5300	MPa	ISO 527
Tensile Strength at Break	110 / 74	MPa	ISO 527
Tensile Elongation at Break	4.4 / 8	%	ISO 527
Impact Strength (Charpy, 23°C)	45 / 55	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	44 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9 / 14	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	204 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 3500	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1190 / -	kg/m ³	ISO 1183
Flammability			
Flammability (3.0 mm)	V-0 / *	class	UL 94