

**ALCOM HP PA6 7010 FR SB1000-20**

(Last update: 15.12.2022)

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

<b>Properties</b>	<b>dry/cond.</b>	<b>Dimension</b>	<b>Test Norm</b>
<b>Mechanical Properties</b>			
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 <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	44 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9 / 14	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
HDT / A (1,8 MPa)	204 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
<b>Electrical Properties</b>			
Surface Resistance	* / 3500	Ohm	IEC 62631-3-2
<b>Rheological Properties</b>			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
<b>Physical Properties</b>			
Density	1190 / -	kg/m <sup>3</sup>	ISO 1183
<b>Flammability</b>			
Flammability (3.0 mm)	V-0 / *	class	UL 94

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### Disclaimer

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions

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