

Technical Data Sheet



ALCOM PBT 700/1.1 CF20 PTFE15

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	20 % carbon fibres, 15 % PTFE
Special Features	electrically conductive, reduced surface resistivity, improved sliding / wear, heat stabilised
Market Segment	Machinery
Application Area	injection moulded parts
Typical Applications	housings, functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C for 2-4 h in an air circulating dryer 100-120 °C for 4-8 h dependant on moisture content
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 80-120 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	14100	MPa	ISO 178
Flexural Strength	210	MPa	ISO 178
Tensile Modulus	16200	MPa	ISO 527
Tensile Strength at Break	140	MPa	ISO 527
Tensile Elongation at Break	1.6	%	ISO 527
Impact Strength (Charpy, 23°C)	37	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	210	°C	ISO 306
HDT / A (1,8 MPa)	217	°C	ISO 75-1/-2
Electrical Properties			
Surface Resistance	25	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1470	kg/m ³	ISO 1183