

Technical Data Sheet



ALCOM PBT 700/1 PTFE20

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	20 % PTFE
Special Features	improved sliding / wear, heat stabilised
Market Segment	Automotive, Machinery
Typical Applications	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
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Processing Injection Moulding	melt temperature 250-270 °C mould temperature 60-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2450	MPa	ISO 178
Flexural Stress (3.5% Strain)	69	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	3.3	%	ISO 527
Tensile Elongation at Break	4.9	%	ISO 527
Impact Strength (Charpy, 23°C)	32	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	183	°C	ISO 306
HDT / A (1,8 MPa)	69	°C	ISO 75-1/-2
DSC (Melt Point)	226	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	36	cm ³ /10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	2.1 - 2.5	%	ISO 294-4
Shrinkage (lateral, 24h)	1.9 - 2.3	%	ISO 294-4
Physical Properties			
Density	1430	kg/m ³	ISO 1183