

Technical Data Sheet



ALCOM PBT 700/12 PTFE10

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	10 % PTFE
Special Features	improved sliding / wear,heat stabilised,good flow
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	2500	MPa	ISO 178
Flexural Stress (3.5% Strain)	74	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	4.8	%	ISO 527
Tensile Elongation at Break	11	%	ISO 527
Impact Strength (Charpy, 23°C)	52	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	182	°C	ISO 306
HDT / A (1,8 MPa)	60	°C	ISO 75-1/-2
DSC (Melt Point)	225	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	20	cm ³ /10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.6 - 1.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.8 - 1.8	%	ISO 294-4
Physical Properties			
Density	1380	kg/m ³	ISO 1183