

ALCOM PBT 700/1 GF20 PTFE15

(Last update: 16.04.2019)

MOCOM

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	20 % glass fibres, 15 % PTFE
Special Features	improved sliding / wear, high stiffness
Market Segment	Automotive, Machinery
Application Area	gear wheels, roller bearings
Typical Applications	functional components, bearings and sliding elements

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	6600	MPa	ISO 178
Flexural Strength	170	MPa	ISO 178
Tensile Modulus	7200	MPa	ISO 527
Tensile Strength at Break	110	MPa	ISO 527
Tensile Elongation at Break	3	%	ISO 527
Impact Strength (Charpy, 23°C)	50	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	210	°C	ISO 306
HDT / A (1,8 MPa)	215	°C	ISO 75-1/-2
DSC (Melt Point)	225	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	18	cm ³ /10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 1.1	%	ISO 294-4
Physical Properties			
Density	1540	kg/m ³	ISO 1183



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Liability Exclusion

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