

Technical Data Sheet



ALCOM LB PBT FC 2015 17077 BL1070-17

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	15 % glass fibres,special filler
Colour	blue
Special Features	opaque
Market Segment	electrical and electronic
Application Area	light blocking components
Typical Applications	injection moulded parts

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 max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 80-120 °C
Storage	dry, protected from light
Minimum Shelf Life	months <36

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4700	MPa	ISO 178
Flexural Strength	140	MPa	ISO 178
Tensile Modulus	5400	MPa	ISO 527
Tensile Strength at Break	85	MPa	ISO 527
Tensile Elongation at Break	3	%	ISO 527
Impact Strength (Charpy, 23°C)	55	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	205	°C	ISO 306
HDT / A (1,8 MPa)	200	°C	ISO 75-1/-2
DSC (Melt Point)	226	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	17	cm ³ /10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.2	%	ISO 294-4

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Physical Properties

Density	1410	kg/m ³	ISO 1183
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Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	18	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.1	%	ISO 13468