

## Technical Data Sheet



### ALCOM LB PBT FC 2015 17076 GY1069-17

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	15 % glass fibres, special filler
Colour	grey, similar to RAL 7001
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
<b>Mechanical Properties</b>			
Flexural Modulus	4800	MPa	ISO 178
Flexural Strength	145	MPa	ISO 178
Tensile Modulus	5400	MPa	ISO 527
Tensile Strength at Break	90	MPa	ISO 527
Tensile Elongation at Break	3.6	%	ISO 527
Impact Strength (Charpy, 23°C)	60	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	204	°C	ISO 306
HDT / A (1,8 MPa)	205	°C	ISO 75-1/-2
DSC (Melt Point)	225	°C	ISO 11357
<b>Rheological Properties</b>			
Melt Index (MVR)	20	cm <sup>3</sup> /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**

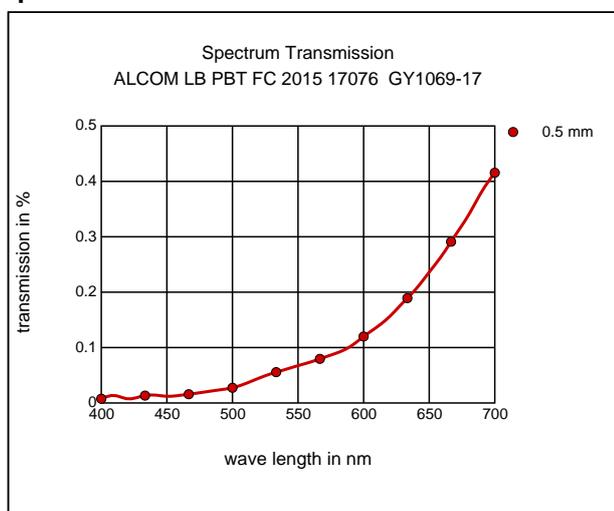
Density	1410	kg/m <sup>3</sup>	ISO 1183
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**Optical Properties**

Tristimulus Value Y10 of Reflection (d=2,0mm)	38	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.1	%	ISO 13468

**Diagrams**

**Spectrum Transmission**



**Spectrum Reflexion**

