

ALCOM LB PBT FC 2015 17071 BL1048-17

(Last update: 12.04.2024)

MOCOM

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	15 % glass fibres
Colour	blue
Special Features	opaque
Market Segment	electrical and electronic, Medical / Personal Care
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	5000	MPa	ISO 178
Flexural Strength	145	MPa	ISO 178
Tensile Modulus	5500	MPa	ISO 527
Tensile Strength at Break	94	MPa	ISO 527
Tensile Elongation at Break	3.1	%	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)	8.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	5.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	205	°C	ISO 306
HDT / A (1,8 MPa)	203	°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)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.4	%	ISO 294-4



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Physical Properties

Density	1430	kg/m ³	ISO 1183
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Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	35	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.1	%	ISO 13468

Additional Information

Different color matches of this material can have significant influence on the suitability according to the various food contact directives (e.g. FDA or EU). Please request a compliance confirmation per colorcode regarding the suitability for the specific food contact application.

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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