

ALCOM LB ABS 1000 15018 WT1029-15

(Last update: 07.06.2022)

MOCOM

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	special filler
Special Features	highly reflective,opaque
Market Segment	Automotive,Lighting
Application Area	lighting,light blocking components
Typical Applications	light guides,reflectors

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 4-8 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 220-260 °C mould temperature 50-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	73	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	49	MPa	ISO 527
Tensile Elongation at Yield	2.9	%	ISO 527
Tensile Elongation at Break	11	%	ISO 527
Impact Strength (Charpy, 23°C)	175	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	95	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	100	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	106	°C	ISO 306
HDT / A (1,8 MPa)	91	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	5	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4

Technical Data Sheet



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Physical Properties

Density	1090	kg/m ³	ISO 1183
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Flammability

Glow Wire (GWFI, 650 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	68	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.1	%	ISO 13468

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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