

## Technical Data Sheet



# ALCOM LB ABS 1000 15018 WT1029-15

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
<b>Mechanical Properties</b>			
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 <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	95	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	100	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	106	°C	ISO 306
HDT / A (1,8 MPa)	91	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	5	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
<b>Physical Properties</b>			
Density	1090	kg/m <sup>3</sup>	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