

ALCOM LB PC+ABS 1000 18079 RD1094-18

(Last update: 12.04.2024)

MOCOM

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	injection moulding grade,highly reflective,opaque
Market Segment	Automotive,various
Application Area	lighting,light blocking components,various
Typical Applications	light guides,reflectors,various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-4 h in an air circulating dryer 100-110 °C for 4-8 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 250-280 °C mould temperature 70-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	70	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	52	MPa	ISO 527
Tensile Elongation at Yield	4.6	%	ISO 527
Tensile Elongation at Break	50	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	47	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	26	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	104	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	129	°C	ISO 306
HDT / A (1,8 MPa)	112	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	20	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1150	kg/m ³	ISO 1183



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Flammability

Flammability (1.5 mm)	HB	class	UL 94
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Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	10	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.3	%	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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