

Technical Data Sheet



ALCOM LB PC 1000 15022 WT1037-15

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

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-4 h 120 °C in an air circulating dryer for 4-12 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 280-320 °C mould temperature 80-110 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	82	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	65	MPa	ISO 527
Tensile Elongation at Yield	5.5	%	ISO 527
Tensile Elongation at Break	35	%	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)	8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	136	°C	ISO 306
HDT / A (1,8 MPa)	122	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	35	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1250	kg/m ³	ISO 1183
Optical Properties			
Tristimulus Value Y10 of Reflection (d=2,0mm)	98	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	3	%	ISO 13468