

Technical Data Sheet



ALCOM LB ECO PC+ABS 1000 WT1191-20

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Filler/Additive System	special filler
Special Features	injection moulding grade,easy release (demoulding),highly reflective,opaque,contains recycled material
Market Segment	Automotive,Lighting
Application Area	lighting,light blocking components
Typical Applications	light guides,reflectors

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	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	73	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	48	MPa	ISO 527
Tensile Elongation at Yield	4.2	%	ISO 527
Tensile Elongation at Break	40	%	ISO 527
Impact Strength (Charpy, 23°C)	250	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	225	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	20	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	108	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	128	°C	ISO 306
HDT / A (1,8 MPa)	110	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	12	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.7 - 1	%	ISO 294-4

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Physical Properties

Density	1270	kg/m ³	ISO 1183
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Ecological Properties

Global Warming Potential (GWP)	1.47	kg CO ₂ eq./kg	ISO 14040, 14044
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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)	92.5	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.3	%	ISO 13468