

Technical Data Sheet



ALCOM LB ECO PC+ABS 1000 SL WT1023-21

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	injection moulding grade,highly reflective,contains recycled material,antisqueak-modified,opaque
Market Segment	Automotive,electrical and electronic,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 3-6 h
-----------------------	--

Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
-------------------------------	--

Storage	dry, protected from light
---------	---------------------------

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress (3.5% Strain)	60	MPa	ISO 178
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	42	MPa	ISO 527
Tensile Elongation at Yield	3.3	%	ISO 527
Tensile Elongation at Break	75	%	ISO 527
Impact Strength (Charpy, 23°C)	255	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	220	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	65	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	83	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	104	°C	ISO 306
HDT / A (1,8 MPa)	99	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	17	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1260	kg/m ³	ISO 1183

Technical Data Sheet



ALCOM LB ECO PC+ABS 1000 SL WT1023-21

Ecological Properties

Global Warming Potential (GWP)	1.8	kg CO ₂ eq./kg	ISO 14040, 14044
--------------------------------	-----	---------------------------	------------------

Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	93	%	DIN 5033
---	----	---	----------