

Technical Data Sheet



ALCOM LB ECO PC 1000 17157 FR IM WT2083-07

Base Polymer	Polycarbonate
Special Features	impact modified,UV stabilised,contains recycled material,flame retardant
Market Segment	electrical and electronic,Lighting
Application Area	lamps,light blocking components,various
Typical Applications	light guides,lamps,sockets,various

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 270-310 °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			
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	59	MPa	ISO 527
Tensile Elongation at Yield	5.3	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23 °C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	225	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	30	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	11	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	140	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	16	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	1290	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.65	kg CO ₂ eq./kg	ISO 14040, 14044

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Flammability

Flammability (1.5 mm)	V-2	class	UL 94
Glow Wire (GWFI, 960°C, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	88.5	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.4	%	ISO 13468