

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 %
Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °C
Storage	dry, protected from light

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