

Technical Data Sheet



ALCOM LB PC 1000 14073 WT1164-14

Base Polymer	Polycarbonate
Filler/Additive System	special filler
Special Features	highly reflective,improved surface appearance,easy flow
Market Segment	Automotive,Lighting
Application Area	lighting,light blocking components
Typical Applications	display elements,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 %

Processing Injection Moulding melt temperature 280-320 °C
mould temperature 80-110 °C

Storage dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	76	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	63	MPa	ISO 527
Tensile Elongation at Yield	5.5	%	ISO 527
Tensile Elongation at Break	40	%	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)	10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	137	°C	ISO 306
HDT / A (1,8 MPa)	124	°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)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1250	kg/m ³	ISO 1183
Optical Properties			
Tristimulus Value Y10 of Reflection (d=2,0mm)	95	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	3	%	ISO 13468