

Technical Data Sheet



ALCOM PC+AWL 750/20.1 WT1407-04LB

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Filler/Additive System	20 % special filler
Special Features	highly reflective,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 4-8 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 250-280 °C mould temperature 70-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress (3.5% Strain)	80	MPa	ISO 178
Tensile Modulus	3000	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	2.8	%	ISO 527
Tensile Elongation at Break	10	%	ISO 527
Impact Strength (Charpy, 23°C)	70	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	75	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)	5.5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	120	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	120	°C	ISO 306
HDT / A (1,8 MPa)	106	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	23	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
Physical Properties			
Density	1330	kg/m ³	ISO 1183
Optical Properties			
Tristimulus Value Y10 of Reflection (d=2,0mm)	92	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.1	%	ISO 13468