

Technical Data Sheet



ALCOM PC+AWL 750/15.1 WT1378-04LB

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Filler/Additive System	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 %
-----------------------	---

Processing Injection Moulding	melt temperature 250-280 °C mould temperature 70-100 °C
-------------------------------	--

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

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3000	MPa	ISO 178
Flexural Strength	85	MPa	ISO 178
Tensile Modulus	2900	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	3.3	%	ISO 527
Tensile Elongation at Break	9.5	%	ISO 527
Impact Strength (Charpy, 23°C)	80	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	60	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	125	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	120	°C	ISO 306
HDT / A (1,8 MPa)	105	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	25	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.3 - 0.7	%	ISO 294-4
Physical Properties			
Density	1250	kg/m ³	ISO 1183

Technical Data Sheet



ALCOM PC+AWL 750/15.1 WT1378-04LB

Flammability

Flammability (1.5 mm)

HB

class

UL 94

Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)

93

%

DIN 5033

Tristimulus Value Y10 of Transm.,d=0.5mm

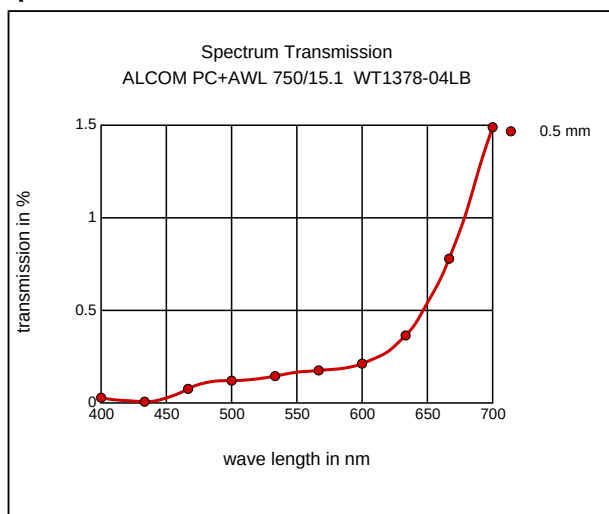
0.4

%

ISO 13468

Diagrams

Spectrum Transmission



Spectrum Reflexion

