



ALCOM PC+AWL 750/15.1 WT1378-21LB

(Last update: 10.01.2024)



Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Filler/Additive System	15 % 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	3100	MPa	ISO 178
Flexural Stress (3.5% Strain)	85	MPa	ISO 178
Tensile Modulus	2900	MPa	ISO 527
Tensile Stress at Yield	51	MPa	ISO 527
Tensile Elongation at Yield	2.9	%	ISO 527
Tensile Elongation at Break	12	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	75	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	128	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)	28	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4



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Physical Properties

Density	1260	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
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Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	92	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.4	%	ISO 13468

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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