

Technical Data Sheet



ALCOM AWL 109/10 WT1218-11LB

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer,modified with Polycarbonate
Filler/Additive System	10 % special filler
Special Features	highly reflective,opaque,high heat stabilised
Market Segment	Automotive,various
Application Area	lighting,light blocking components
Typical Applications	light guides,reflectors

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-90 °C for 2-4 h in an air circulating dryer 80-90 °C for 4-8 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 230-270 °C mould temperature 60-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress (3.5% Strain)	75	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	3	%	ISO 527
Tensile Elongation at Break	13	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	93	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	115	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	109	°C	ISO 306
HDT / A (1,8 MPa)	100	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	17	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.6 - 0.8	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4

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Physical Properties

Density	1180	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94

Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	85	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.2	%	ISO 13468