

Technical Data Sheet



ALCOM AWL 10/3 WT1308-05LB

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Special Features	opaque, highly reflective, heat stabilised, easy flow
Market Segment	Automotive, various
Application Area	lighting, light blocking components
Typical Applications	light guides, reflectors

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 4-8 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 220-260 °C mould temperature 50-80 °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)	60	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	40	MPa	ISO 527
Tensile Elongation at Yield	2	%	ISO 527
Tensile Elongation at Break	8.8	%	ISO 527
Impact Strength (Charpy, 23°C)	48	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	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)	4.5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	110	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	80	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	30	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1130	kg/m ³	ISO 1183

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Flammability

Flammability (1.5 mm)

HB

class

UL 94

Optical Properties

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

84

%

DIN 5033

Tristimulus Value Y10 of Transm.,d=0.5mm

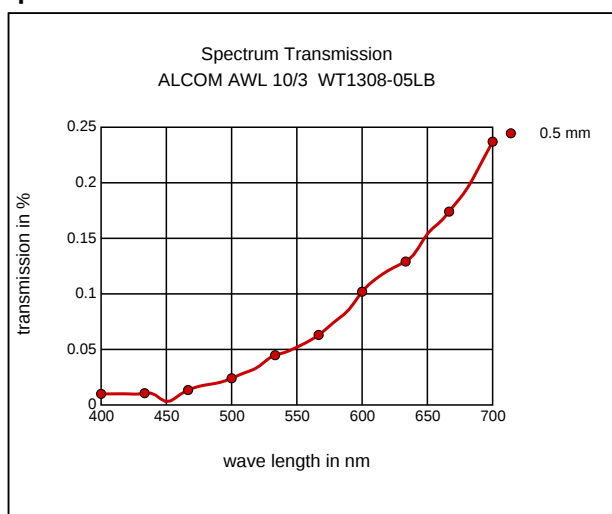
0.2

%

ISO 13468

Diagrams

Spectrum Transmission



Spectrum Reflexion

