

Technical Data Sheet



ALCOM AWL 10 WT1308-05LB

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	10 % special filler
Special Features	highly reflective, opaque
Market Segment	Automotive, Lighting
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 %
Processing Injection Moulding	melt temperature 220-260 °C mould temperature 50-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	73	MPa	ISO 178
Tensile Modulus	2800	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	2.3	%	ISO 527
Tensile Elongation at Break	13	%	ISO 527
Impact Strength (Charpy, 23°C)	80	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	45	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12	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	105	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	110	°C	ISO 306
HDT / A (1,8 MPa)	88	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	6.5	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	1110	kg/m ³	ISO 1183

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Flammability

Glow Wire (GWFI, 650°C, 1.0mm)

passed

-

DIN EN 60695

Glow Wire (GWFI, 650°C, 2.0mm)

passed

-

DIN EN 60695

Optical Properties

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

85

%

DIN 5033

Tristimulus Value Y10 of Transm., d=0.5mm

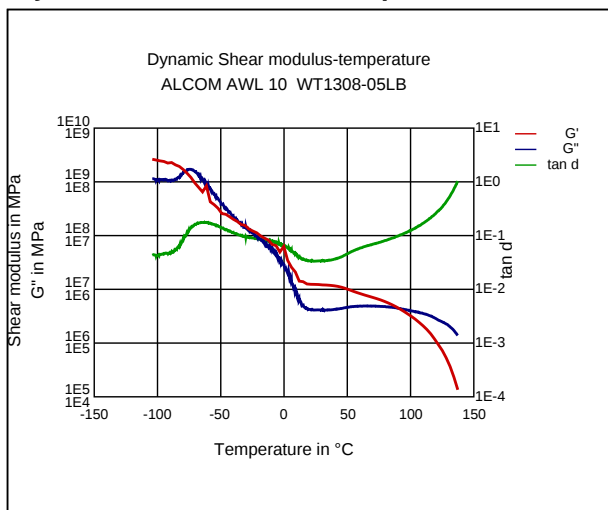
0.2

%

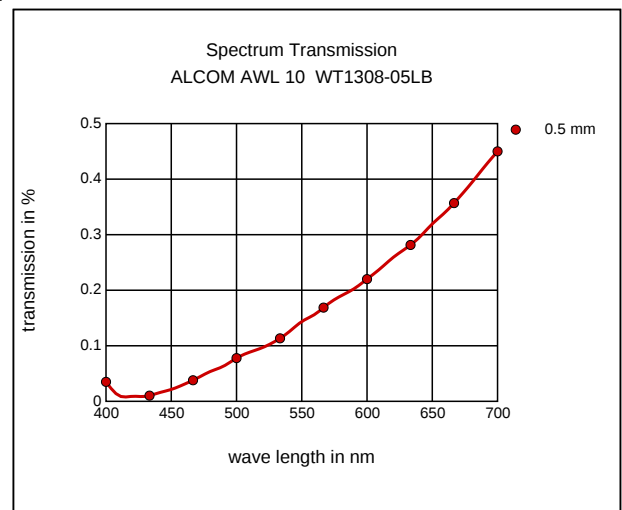
ISO 13468

Diagrams

Dynamic Shear modulus-temperature



Spectrum Transmission



Spectrum Reflexion

