



ALCOM AWL 10 WT1308-05LB

(Last update: 01.10.2024)



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

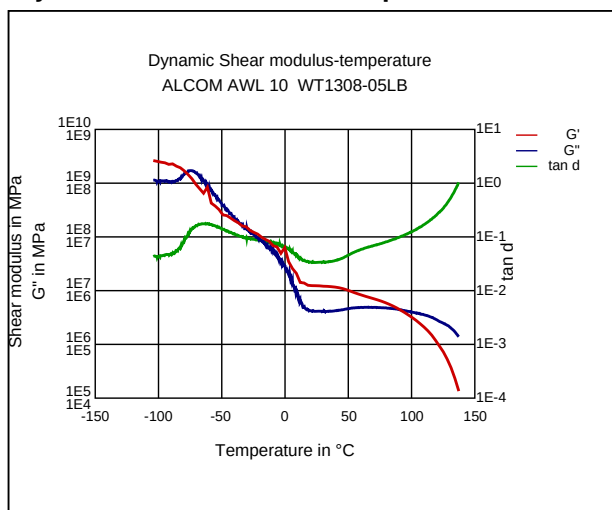
Glow Wire (GWFI, 650 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

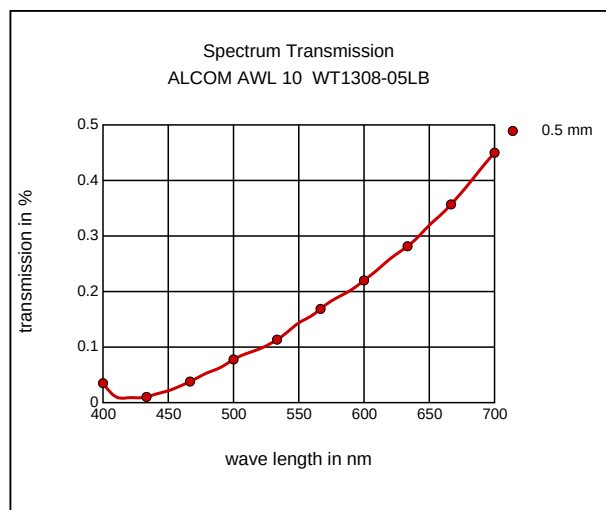
Tristimulus Value Y10 of Reflection (d=2,0mm)	85	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.2	%	ISO 13468

Diagrams

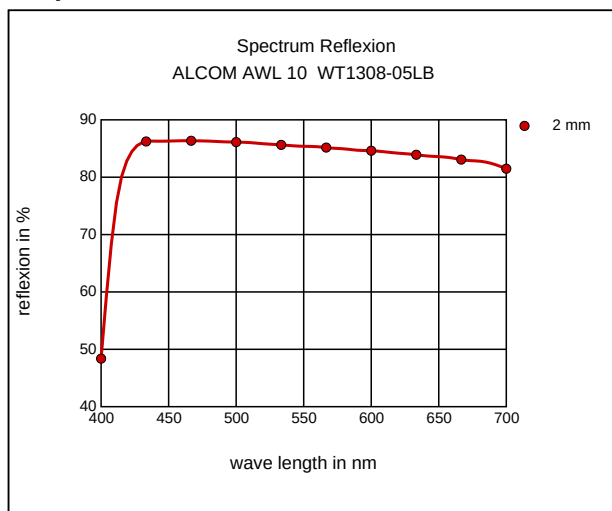
Dynamic Shear modulus-temperature



Spectrum Transmission



Spectrum Reflexion



Technical Data Sheet



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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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