Technical Data Sheet

ALCOM AWL 109/15 WT1217-11LB

(Last update: 05.02.2025)

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer,modified with Polycarbonate
Filler/Additive System	15 % 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
Approvals	GMW15702

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 %
Processing Injection Moulding	melt temperature 230-270 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2700	MPa	ISO 178
Flexural Strength	75	MPa	ISO 178
Tensile Modulus	2700	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)	85	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	83	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H358/30	115	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	110	°C	ISO 306
HDT / A (1,8 MPa)	100	°C	ISO 75-1/-2
Ball Indentation Temperature	100	°C	DIN EN 60695-10-2
Rheological Properties			
Melt Index (MVR)	15	cm³/10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4

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Physical Properties

Density	1240	kg/m³	ISO 1183

Flammability

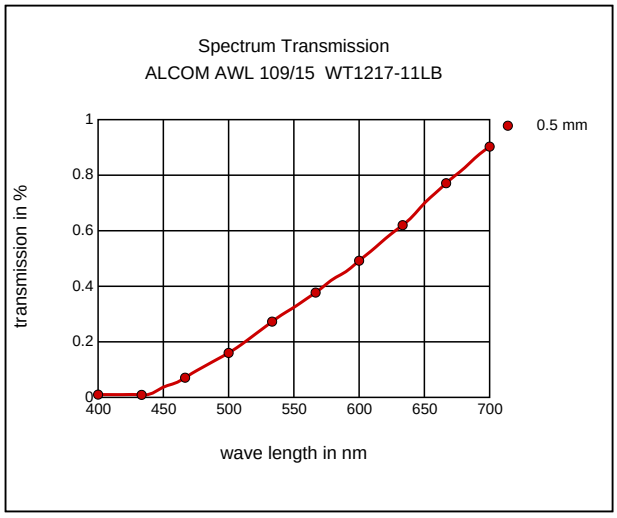
Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 650°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650°C, 3.0mm)	passed	-	DIN EN 60695

Optical Properties

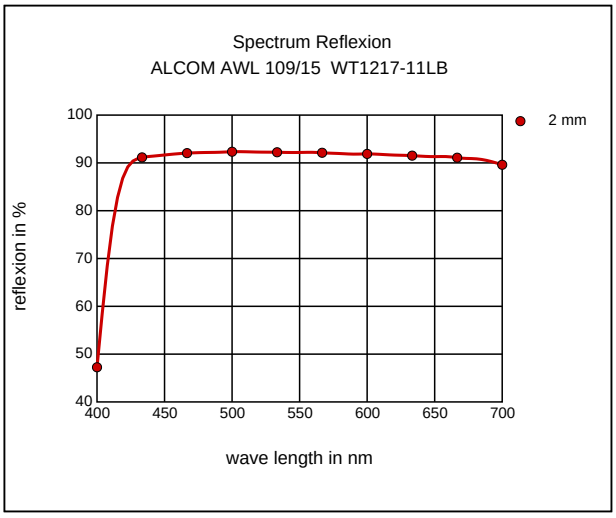
Tristimulus Value Y10 of Reflection (d=2,0mm)	93	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.4	%	ISO 13468

Diagrams

Spectrum Transmission



Spectrum Reflexion



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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