

ALCOM AWL 109/15 UV WT1217-11LB

(Last update: 03.09.2024)

MOCOM

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer, modified with Polycarbonate
Filler/Additive System	15 % special filler
Special Features	highly reflective, opaque, UV stabilised, 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	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	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)	80	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	60	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6.5	kJ/m ²	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
Rheological Properties			
Melt Index (MVR)	15	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4

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Physical Properties

Density	1240	kg/m³	ISO 1183
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Flammability

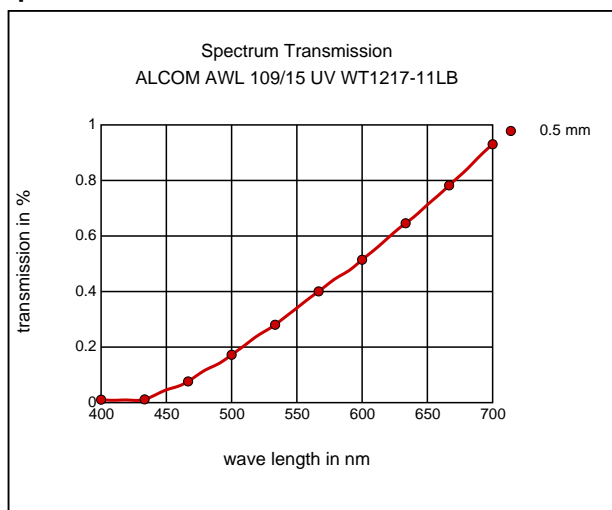
Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94

Optical Properties

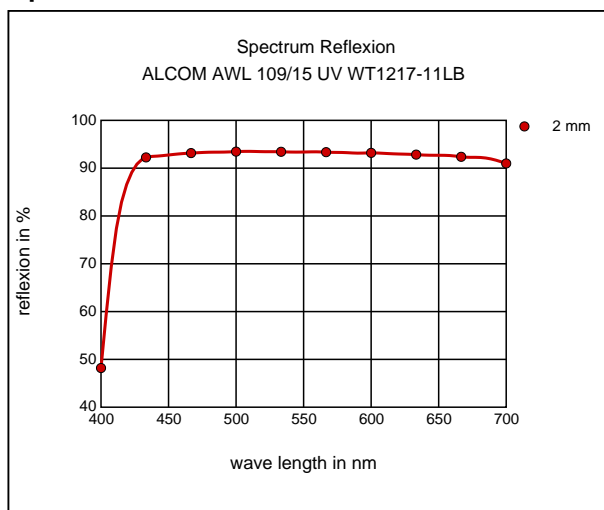
Tristimulus Value Y10 of Reflection (d=2,0mm)	92	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.4	%	ISO 13468

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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:



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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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