

ALCOM AWL 15/1 WT1471-04LB

(Last update: 02.09.2025)

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	15 % special filler
Special Features	highly reflective, opaque
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 %
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	2900	MPa	ISO 178
Flexural Stress (3.5% Strain)	71	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	2.4	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	55	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	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	110	°C	ISO 306
HDT / A (1,8 MPa)	93	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	6	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.5 - 0.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4

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Physical Properties

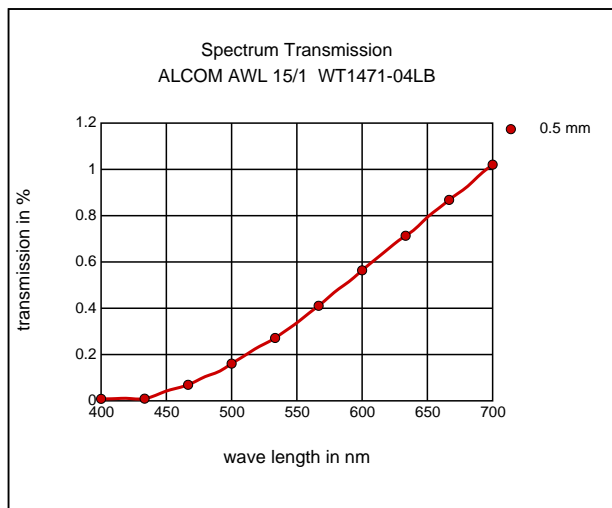
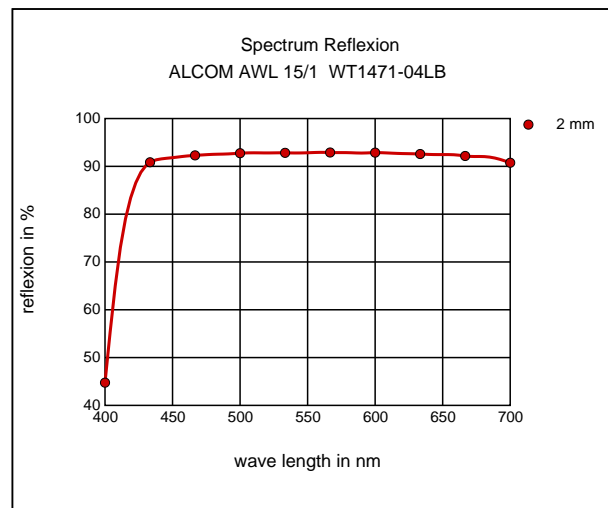
Density	1170	kg/m ³	ISO 1183
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Flammability

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)	94	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.3	%	ISO 13468

Diagrams**Spectrum Transmission****Spectrum Reflexion****Disclaimer**

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, MOCOM 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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- Medical devices categorized as risk class III according to EU Medical Device Regulation (MDR) 2017/745 or risk class 3 FDA
- Medical devices described in list A according IVDD (98/79/EG) or risk class D in EU 2017/746 in vitro diagnostic medical devices (IVDR)
- Bodily implant applications for greater than 30 days (permanent implants) in any risk class
- Critical components in any medical device that supports or sustains human life

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