

Technical Data Sheet



ALCOM PWL 10/1 WT41-913LB

(Last update: 10.10.2024)



Base Polymer	Polycarbonate
Filler/Additive System	15 % special filler
Special Features	highly reflective,opaque,impact modified
Market Segment	Automotive,Lighting
Application Area	lighting,light blocking components
Typical Applications	light guides,reflectors

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-4 h 120 °C in an air circulating dryer for 4-12 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 280-320 °C mould temperature 80-110 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	75	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	56	MPa	ISO 527
Tensile Elongation at Yield	5.3	%	ISO 527
Tensile Elongation at Break	50	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	38	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	142	°C	ISO 306
HDT / A (1,8 MPa)	126	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	8	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.7 - 0.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1300	kg/m ³	ISO 1183

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Flammability

Flammability (0.75 mm)
Yellow Card available

HB
yes

class
-

UL 94
-

Optical Properties

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

97

%

DIN 5033

Tristimulus Value Y10 of Transm., d=0.5mm

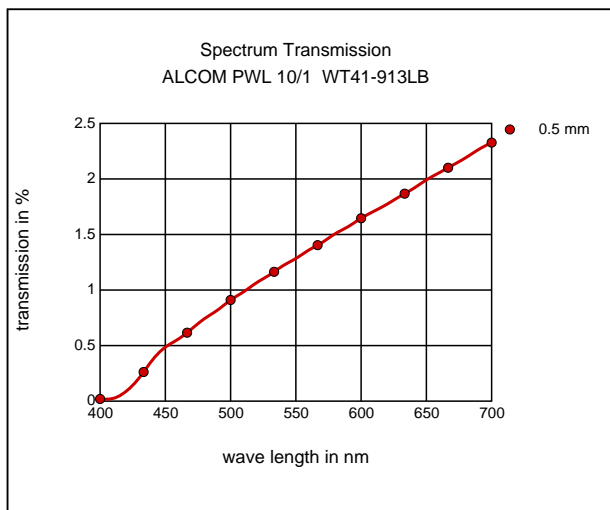
1.4

%

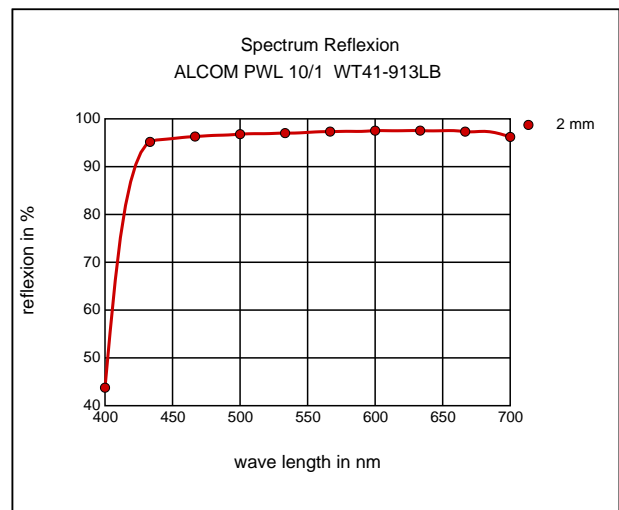
ISO 13468

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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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days



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- any critical component in any medical device that supports or sustains human life.

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