

**ALCOM PWL 10/1.1 WT1302-05LB**

(Last update: 07.11.2024)

**MOCOM**

Base Polymer	Polycarbonate
Filler/Additive System	15 % special filler
Special Features	highly reflective, opaque, easy release (demoulding), injection moulding grade, UV stabilised
Market Segment	Automotive, various
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
<b>Mechanical Properties</b>			
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress (3.5% Strain)	82	MPa	ISO 178
Tensile Modulus	2900	MPa	ISO 527
Tensile Stress at Yield	63	MPa	ISO 527
Tensile Elongation at Yield	5.6	%	ISO 527
Tensile Elongation at Break	50	%	ISO 527
Impact Strength (Charpy, 23 °C)	no break	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	no break	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	10	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	10	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	140	°C	ISO 306
HDT / A (1,8 MPa)	129	°C	ISO 75-1/-2
Ball Indentation Temperature	137	°C	DIN EN 60695-10-2
<b>Rheological Properties</b>			
Melt Index (MVR)	15	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4



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### Physical Properties

Density	1330	kg/m <sup>3</sup>	ISO 1183
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### Flammability

Flammability (0.75 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
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, 850 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850 °C, 3.0mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 850 °C, 1.0mm)	passed	-	DIN EN 60695

### 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

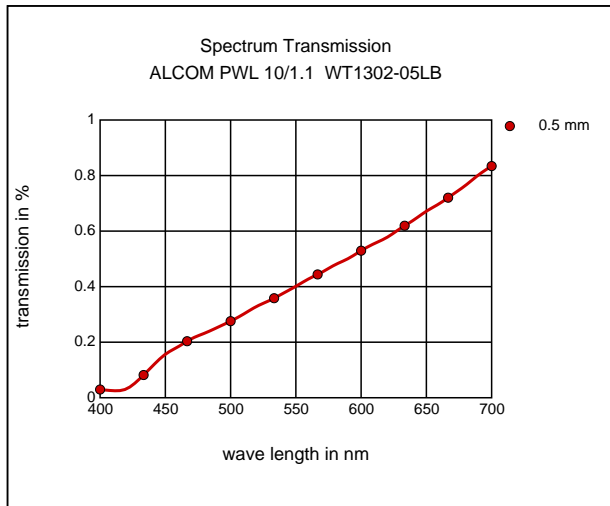
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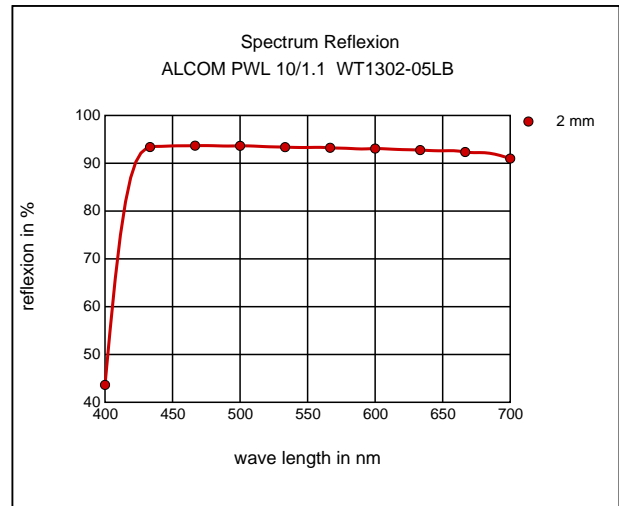
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### Diagrams

#### 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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