

ALCOM® PWL 10/1.1 WT1302-05LB

Polycarbonate

MOCOM Compounds GmbH & Co. KG

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

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

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E80168-102347697
Search for UL Yellow Card	• MOCOM Compounds GmbH & Co. KG • ALCOM® PWL
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Filler, 15% Filler by Weight
Additive	• UV Stabilizer
Features	• Good Mold Release • High Reflectivity • UV Stabilized
Uses	• Automotive Applications • Lighting Applications • General Purpose • Reflectors
RoHS Compliance	• Contact Manufacturer
Appearance	• Opaque
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.36 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	15 cm ³ /10min	ISO 1133
Molding Shrinkage (24 hr)	0.50 to 0.80 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2900 MPa	ISO 527-1
Tensile Stress (Yield)	63.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	5.6 %	
Break	30 %	
Flexural Modulus	2900 MPa	ISO 178
Flexural Stress	100 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-40°C	10 kJ/m ²	
23°C	10 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-40°C	No Break	
23°C	No Break	



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	129 °C	ISO 75-2/A
Vicat Softening Temperature	140 °C	ISO 306/B50
Ball Indentation Temperature	137 °C	IEC 60695-10-2
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.75 mm	HB	
1.5 mm	HB	
3.0 mm	HB	
Glow Wire Flammability Index		IEC 60695-2-12
2.0 mm	850 °C	
3.0 mm	850 °C	
Additional Information	Nominal Value Unit	Test Method
Tristimulus Value		
--3	92 %	DIN 5033
--4	0.40 %	ISO 13468
Injection	Nominal Value Unit	
Drying Temperature		
Circulation Dryer	120 °C	
Desiccant Dryer	120 °C	
Drying Time		
Circulation Dryer	4.0 to 12 hr	
Desiccant Dryer	2.0 to 4.0 hr	
Suggested Max Moisture	0.020 %	
Processing (Melt) Temp	280 to 320 °C	
Mold Temperature	80 to 110 °C	

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ Y10 of Reflection (d=2mm)

⁴ Y10 of Transmission (d=0.5mm)



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Where to Buy

Supplier

MOCOM Compounds GmbH & Co. KG

Telephone: +49-(0)40-78105-710

Web: <https://www.mocom.eu/>

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.

Telephone: +49-40-78105-0

Web: <http://www.albis.com/>

Availability: Global

