

Technical Data Sheet



ALCOM PWL 10/1.1 WT1302-05LB

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
Mechanical Properties			
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 ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	10	kJ/m ²	ISO 179/1eA
Thermal Properties			
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
Rheological Properties			
Melt Index (MVR)	15	cm ³ /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 ³	ISO 1183
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Flammability

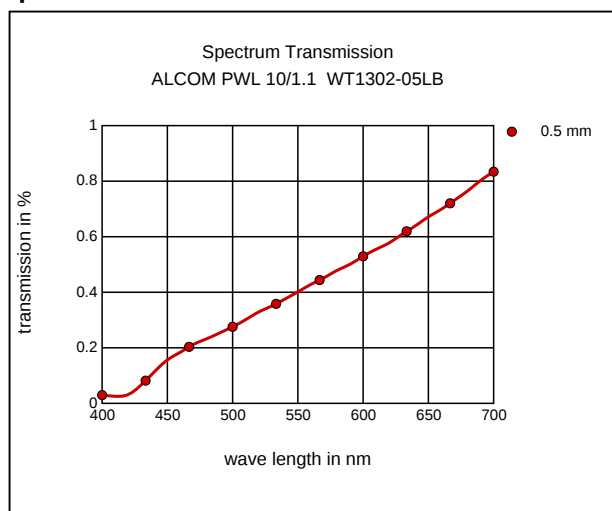
Flammability (0.75 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 850 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN 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

Diagrams

Spectrum Transmission



Spectrum Reflexion

