

Technical Data Sheet



ALCOM PWL 10/1.1 WT1302-05LB

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

Technical Data Sheet



ALCOM PWL 10/1.1 WT1302-05LB

Physical Properties

Density	1330	kg/m ³	ISO 1183
---------	------	-------------------	----------

Flammability

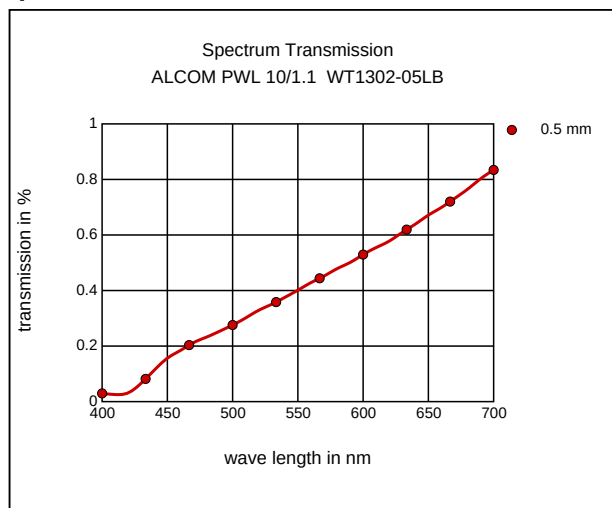
Flammability (0.75 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 850°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850°C, 2.0mm)	passed	-	DIN EN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

