+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Technical Data Sheet

Alcom®

MOCOM

ALCOM PWL 10/1 WT41-913LB

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/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	38	kJ/m²	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	cm³/10min	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/m³	ISO 1183

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Flammability

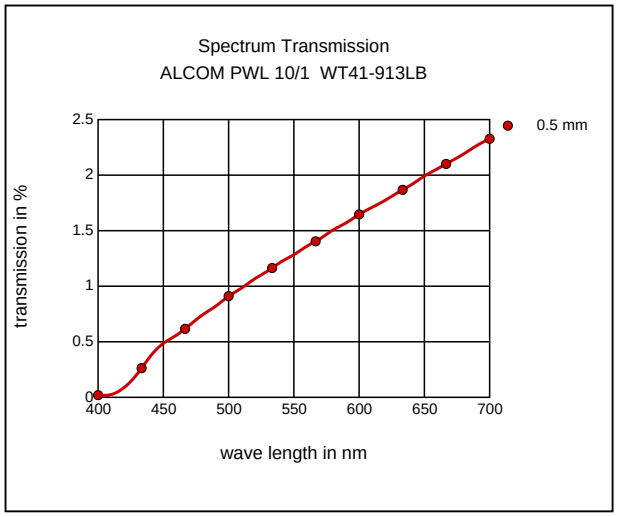
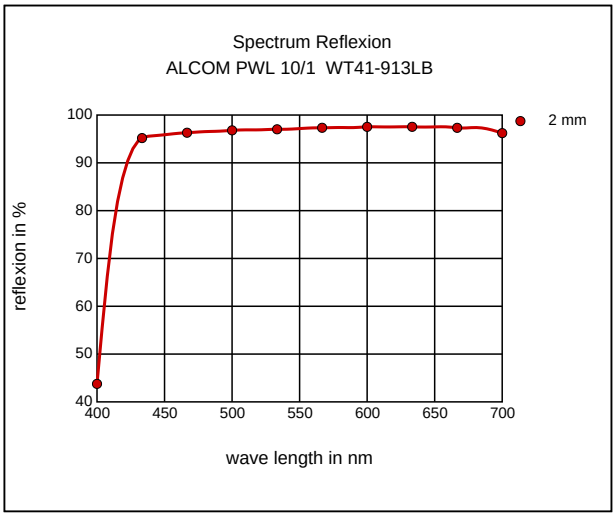
Flammability (0.75 mm)	HB	class	UL 94
Yellow Card available	yes	-	-

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