

ALCOM® PWL 10/1.1 WT1302-05LB

Polycarbonate
ALBIS PLASTIC GmbH

Message:

ALCOM® PWL 10/1.1 WT1302-05LB is a Polycarbonate (PC) product filled with 15% filler. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PWL 10/1.1 WT1302-05LB include automotive, lighting applications and reflectors. Characteristics include:
REACH Compliant
RoHS Compliant
Good Mold Release
UV Stabilized

General Information			
Filler / Reinforcement	Filler, 15% Filler by Weight		
Additive	UV Stabilizer		
Features	Good Mold Release		
	High Reflectivity		
Uses	Automotive Applications		
	Lighting Applications		
	Reflectors		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
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)	15.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	125	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ISO 527-2
Tensile Stress	62.0	MPa	ISO 527-2
Tensile Strain (Break)	50	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	139	°C	ISO 75-2/B
1.8 MPa, Unannealed	129	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
2.00 mm	850	°C	
3.00 mm	850	°C	
Additional Information	Nominal Value	Unit	Test Method
Tristimulus Value			
Y10 of Reflection	91	%	DIN 5033
Y10 of Transmittance : 500.0 μm	0.40	%	ISO 13468
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	4.0 to 12	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	280 to 320	°C	
Mold Temperature	80.0 to 100	°C	

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