

ALCOM® PC 740/4.2 WT1159-10LD2

Polycarbonate
ALBIS PLASTIC GmbH

Message:

ALCOM® PC 740/4.2 WT1159-10LD2 is a Polycarbonate (PC) product filled with filler. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PC 740/4.2 WT1159-10LD2 include automotive and lighting applications. Characteristics include:
Flame Rated
REACH Compliant
RoHS Compliant
Stabilized

General Information			
Filler / Reinforcement	Filler		
Additive	Processing Stabilizer		
Uses	Automotive Applications		
	Lighting Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	17.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	65.0	MPa	
--	65.0	MPa	
Tensile Strain			ISO 527-2
Yield	5.8	%	
Break	60	%	
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress			ISO 178
--	100	MPa	
3.5% Strain	77.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	15	kJ/m²	
-40°C	11	kJ/m²	
-20°C	12	kJ/m²	

Charpy Unnotched Impact Strength		ISO 179/1eU	
--	No Break		
-40°C	No Break		
-20°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	127	°C	ISO 75-2/A
Vicat Softening Temperature	142	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
0.750 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	850	°C	
2.00 mm	850	°C	
	960		
3.00 mm	850	°C	
	960		
4.00 mm	850	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance ¹ (Total, 1000 µm)	18.7	%	ISO 13468
Haze ² (1000 µm)	94	%	ISO 13468
Additional Information	Nominal Value	Unit	
Half Power Angle - T(Y) ³ (1.00 mm)	57.0	°	
Injection	Nominal Value	Unit	
Drying Temperature			
Circulation Dryer	100 to 120	°C	
Desiccant Dryer	100 to 120	°C	
Drying Time			
Circulation Dryer	4.0 to 12	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	270 to 310	°C	
Mold Temperature	80.0 to 110	°C	
NOTE			
1.	A, 2°		
2.	III. A, 2°		
3.	A, 2°		

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