

ALCOM® PC 740/4.12 UV GY1161-11LD

Polycarbonate
ALBIS PLASTIC GmbH

Message:

ALCOM® PC 740/4.12 UV GY1161-11LD is a Polycarbonate (PC) product filled with filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PC 740/4.12 UV GY1161-11LD include automotive and lighting applications. Characteristics include:
Flame Rated
REACH Compliant
RoHS Compliant
Heat Stabilizer
High Flow

General Information			
Filler / Reinforcement	Filler		
Additive	Heat Stabilizer UV Stabilizer		
Features	Heat Stabilized High Flow		
Uses	Automotive Applications Lighting Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	31.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2450	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	66.0	MPa	
--	66.0	MPa	
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	70	%	
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress			ISO 178
--	100	MPa	
3.5% Strain	76.0	MPa	
Flexural Strain at Flexural Strength	7.0	%	ISO 178

Half Power Angle - T(Y) ¹ (1.00 mm)	2.00	°	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	10	kJ/m ²	
-40°C	10	kJ/m ²	
-20°C	10	kJ/m ²	
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)	124	°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 ² (Total, 1000 µm)	77.1	%	ISO 13468
Haze ³ (1000 µm)	80	%	ISO 13468
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	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.	A, 2°		
3.	III. A, 2°		

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