

# ALCOM® PC 740/4 GY1152-05LD

Polycarbonate

ALBIS PLASTIC GmbH

## Message:

ALCOM® PC 740/4 GY1152-05LD is a Polycarbonate (PC) product filled with filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PC 740/4 GY1152-05LD include automotive and lighting applications.

Characteristics include:

Flame Rated

REACH Compliant

RoHS Compliant

General Information			
Filler / Reinforcement	Filler		
Features	Good Flow		
Uses	Automotive Applications Lighting Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	17.0	cm <sup>3</sup> /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
Fire Performance (1.00 mm)	passed		FMVSS
Half Power Angle - T(Y) <sup>1</sup> (1.00 mm)	40.0	°	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	12	kJ/m <sup>2</sup>	

-40°C	12		kJ/m <sup>2</sup>	
-20°C	12		kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	No Break			
-40°C	No Break			
-20°C	No Break			
<b>Thermal</b>	<b>Nominal Value</b>		<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature (1.8 MPa, Unannealed)	124		°C	ISO 75-2/A
Vicat Softening Temperature	142		°C	ISO 306/B50
<b>Flammability</b>	<b>Nominal Value</b>		<b>Unit</b>	<b>Test Method</b>
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	
<b>Optical</b>	<b>Nominal Value</b>		<b>Unit</b>	<b>Test Method</b>
Transmittance <sup>2</sup> (Total, 1000 µm)	18.0		%	ISO 13468
Haze <sup>3</sup> (1000 µm)	95		%	ISO 13468
<b>Injection</b>	<b>Nominal Value</b>		<b>Unit</b>	
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	
<b>NOTE</b>				
1.	A, 2°			
2.	A, 2°			
3.	III. A, 2°			

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#### Recommended distributors for this material

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