

ALCOM® PC 740/4 GY1227-08LD

Polycarbonate

MOCOM Compounds GmbH & Co. KG

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Base Polymer
Polycarbonate

Filler/Additive System
special filler

Special Features
light scattering, high light diffusion, easy flow

Market Segment
Automotive, Lighting

Application Area
lighting, light transparent components

Typical Applications
lamp covers, display elements, operating elements

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E80168-638508
Search for UL Yellow Card	• MOCOM Compounds GmbH & Co. KG • ALCOM® PC
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Filler
Features	• Good Flow • Good Light Diffusion • High Light Diffusion
Uses	• Automotive Applications • Displays • Lighting Applications
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.19 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	23 cm ³ /10min	ISO 1133
Molding Shrinkage (24 hr)	0.70 %	ISO 294-4
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2450 MPa	ISO 527-1
Tensile Stress (Yield)	66.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	6.0 %	
Break	70 %	
Flexural Modulus	2400 MPa	ISO 178
Flexural Stress (3.5% Strain)	76.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-40°C	10 kJ/m ²	
23°C	10 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-40°C	No Break	
23°C	No Break	
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	124 °C	
Vicat Softening Temperature	142 °C	ISO 306/B50



Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	HB	
0.75 mm	V-2	
Glow Wire Flammability Index		IEC 60695-2-12
1.0 mm	850 °C	
2.0 mm	850 °C	
Optical	Nominal Value Unit	Test Method
Light Transmittance		ISO 13468
Total ³	48.0 %	
Total ⁴	26.5 %	
Total ⁵	15.5 %	
Total ⁶	9.5 %	
Haze		ISO 13468
--3	95.0 %	
--4	95.5 %	
--5	95.5 %	
--6	96.0 %	
Half Power Angle		
--3	33.0 °	
--4	47.0 °	
--5	52.0 °	
--6	54.0 °	
Injection	Nominal Value Unit	
Drying Temperature		
Circulation Dryer	120 °C	
Desiccant Dryer	120 °C	
Drying Time		
Circulation Dryer	4.0 to 12 hr	
Desiccant Dryer	2.0 to 4.0 hr	
Suggested Max Moisture	0.020 %	
Processing (Melt) Temp	270 to 310 °C	
Mold Temperature	80 to 110 °C	

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ T(Y) (d=1mm, A, 2°)

⁴ T(Y) (d=2mm, A, 2°)

⁵ T(Y) (d=3mm, A, 2°)

⁶ T(Y) (d=4mm, A, 2°)



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Where to Buy

Supplier

MOCOM Compounds GmbH & Co. KG

Telephone: +49-(0)40-78105-710

Web: <https://www.mocom.eu/>

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.

Telephone: +49-40-78105-0

Web: <http://www.albis.com/>

Availability: Global

