

ALCOM PC 740/4.16 UV CC1321-08LG

(Last update: 19.03.2020)

MOCOM

Base Polymer	Polycarbonate
Filler/Additive System	special filler, UV stabilised
Special Features	high light transmission, light scattering
Market Segment	Automotive, Lighting
Application Area	lighting, light transparent components, injection moulded parts
Typical Applications	light guides, display elements, operating elements

Pre-Drying Conditions 120 °C in a dry air (dessiccant) dryer
for 2-3 h
max. moisture content <0,02 %

Processing Injection Moulding melt temperature 270-300 °C
mould temperature 80-100 °C

Storage dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2450	MPa	ISO 178
Flexural Stress (3.5% Strain)	76	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	65	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	85	%	ISO 527
Impact Strength (Charpy, 23 °C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	10	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	145	°C	ISO 306
HDT / A (1,8 MPa)	128	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	10	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1190	kg/m ³	ISO 1183

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Flammability

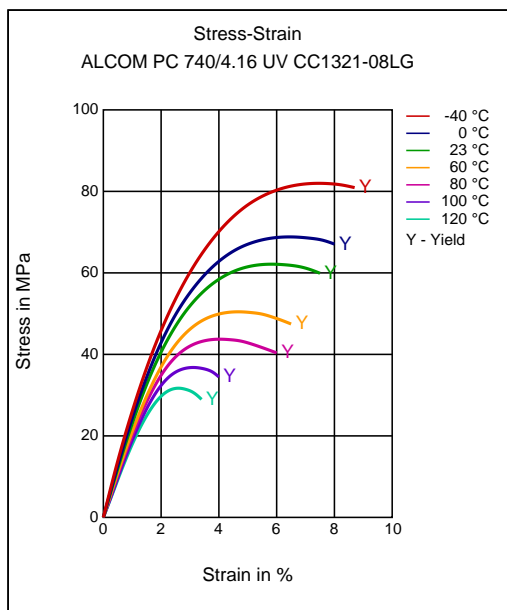
Flammability (0.75 mm)	V-2	class	UL 94
Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 850 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695
Fire behavior FMVSS (1.0 mm)	passed	-	FMVSS 302/DIN 75200

Optical Properties

Total Transmission T(Y) (d=4,0mm, A, 2°)	86.5	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	94.5	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	5	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	10	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	13	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	16	°	-

Diagrams

Stress-Strain



Additional Information

In general, gentle or mild processing conditions are recommended. It is essential to process the material within the recommended processing window. In order to avoid thermo-oxidative degradation, long residence times in the barrel should be avoided.

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on



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The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.**

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
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