



ALCOM PC 740/4 UV CC1323-08LG

(Last update: 19.04.2023)



Base Polymer	Polycarbonate
Filler/Additive System	special filler, UV stabilised
Special Features	high light transmission, light scattering, good flow
Market Segment	Automotive, Lighting
Application Area	lighting, light transparent components
Typical Applications	light guides, display elements, operating elements
Approvals	GMW15702, GS93016, AMECA (SAE J-576)

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	2400	MPa	ISO 527
Tensile Stress at Yield	66	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	70	%	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)	7	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	142	°C	ISO 306
HDT / A (1,8 MPa)	124	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	20	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	1180	kg/m ³	ISO 1183



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Flammability

Flammability (0.75 mm)	V-2	class	UL 94
Yellow Card available	yes	-	-
Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
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=1,0mm, A, 2°)	89	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	86	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	81.5	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	77	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	93	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	94.5	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	95	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	95	%	ISO 13468
Half Power Angle T(Y) (d=1mm, A, 2°)	12	°	-
Half Power Angle T(Y) (d=2mm, A, 2°)	19	°	-
Half Power Angle T(Y) (d=3mm, A, 2°)	24	°	-
Half Power Angle T(Y) (d=4mm, A, 2°)	28	°	-

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.

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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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- any critical component in any medical device that supports or sustains human life.

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