

ALCOM PC 740/4 UV WT1082-08LD2

(Last update: 20.03.2017)

Base Polymer	Polycarbonate
Filler/Additive System	special filler, UV stabilised
Special Features	translucent, light scattering, high light diffusion, good flow
Market Segment	Automotive, Lighting
Application Area	lighting, light transparent components
Typical Applications	lamp covers, display elements, operating elements

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 h dependant on moisture content max. moisture content <0,02 %
Processing Conditions	injection moulding melt temperature 270-310 °C injection moulding mould temperature 80-110 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural modulus	2400	MPa	ISO 178
3.5% Flexural stress	76	MPa	ISO 178
Flexural strength	100	MPa	ISO 178
Tensile modulus	2450	MPa	ISO 527-1/-2
Tensile stress at yield	66	MPa	ISO 527-1/-2
Tensile strength	66	MPa	ISO 527-1/-2
Tensile elongation at yield	6	%	ISO 527-1/-2
Tensile elongation at break	70	%	ISO 527-1/-2
Charpy impact strength 1eU	no break	kJ/m ²	ISO 179/1eU
Charpy impact strength 1eU -40 °C	no break	kJ/m ²	ISO 179/1eU
Charpy notched impact 1eA	12	kJ/m ²	ISO 179/1eA
Charpy notched impact 1eA -40 °C	12	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			
MVR	17	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.8	%	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
Yellow Card available	yes	-	-
Flammability, 1.5 mm	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire 850°C 1mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 850°C 2mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 850°C 3mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 850°C 4mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 960°C 3mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 960°C 4mm (GWFI)	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°)	53.5	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	44.5	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	38	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	32	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	95	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	95	%	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°)	51	°	-
Half Power Angle T(Y) (d=2mm, A, 2°)	60	°	-
Half Power Angle T(Y) (d=3mm, A, 2°)	62	°	-
Half Power Angle T(Y) (d=4mm, A, 2°)	63	°	-

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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