



ALCOM LD2 PC 2010 UV 18148 CC1184-18

(Last update: 18.03.2024)

MOCOM

Base Polymer	Polycarbonate
Filler/Additive System	10 % glass fibres,special filler,UV stabilised
Special Features	translucent,high light transmission,light scattering,easy release (demoulding)
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 max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 290-320 °C mould temperature 80-130 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3800	MPa	ISO 178
Flexural Strength	130	MPa	ISO 178
Tensile Modulus	3700	MPa	ISO 527
Tensile Strength at Break	72	MPa	ISO 527
Tensile Elongation at Break	4.8	%	ISO 527
Impact Strength (Charpy, 23°C)	75	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	70	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	146	°C	ISO 306
HDT / A (1,8 MPa)	140	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	13	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1260	kg/m ³	ISO 1183



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Flammability

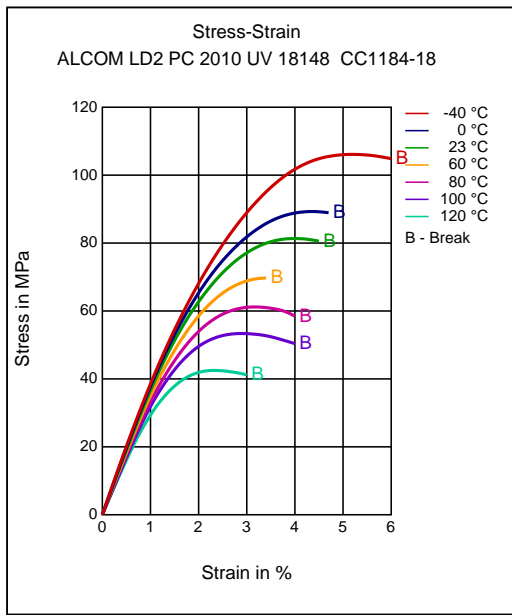
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695
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Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	86	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	83.5	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	77.5	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	73	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	88	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	93	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	94.5	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	95	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	5	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	8	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	12	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	14	°	-

Diagrams

Stress-Strain



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 applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.



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