

Technical Data Sheet



ALCOM LD2 PC 1000 UV 16104 WT2287-09TL

MOCOM

Base Polymer	Polycarbonate
Filler/Additive System	UV stabilised
Special Features	light scattering
Market Segment	Automotive,Lighting
Application Area	lighting,light transparent components
Typical Applications	lamp covers,display elements,operating elements
Approvals	GS93016

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-4 h 120 °C in an air circulating dryer for 4-12 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °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	62	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	95	%	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)	14	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	12	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	146	°C	ISO 306
HDT / A (1,8 MPa)	128	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	16	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4

Technical Data Sheet



ALCOM LD2 PC 1000 UV 16104 WT2287-09TL

MOCOM

Physical Properties

Density	1200	kg/m ³	ISO 1183
---------	------	-------------------	----------

Flammability

Flammability (0.75 mm)	V-2	class	UL 94
Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	64	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	52	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	44	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	38	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	93	%	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=1,0mm, A, 2°)	2	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	31	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	62	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	64	°	-

Diagrams

Stress-Strain

