Technical Data Sheet

Alcom® MOCOM

ALCOM LDDC PC 1000 UV 18041 WT1078-12

Base Polymer	Polycarbonate
Filler/Additive System	special filler,UV stabilised
Special Features	translucent,high light diffusion,good flow
Market Segment	Automotive,Lighting
Application Area	lighting,light transparent components,White Panel-Technology
Typical Applications	lamp covers,display elements,operating elements
Approvals	Stellantis Plastic Material Policy

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	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	76	MPa	ISO 178
Tensile Modulus	2450	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/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	11	kJ/m²	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)	19	cm³/10min	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/m³	ISO 1183

Technical Data Sheet

Alcom®

MOCOM

ALCOM LDDC PC 1000 UV 18041 WT1078-12

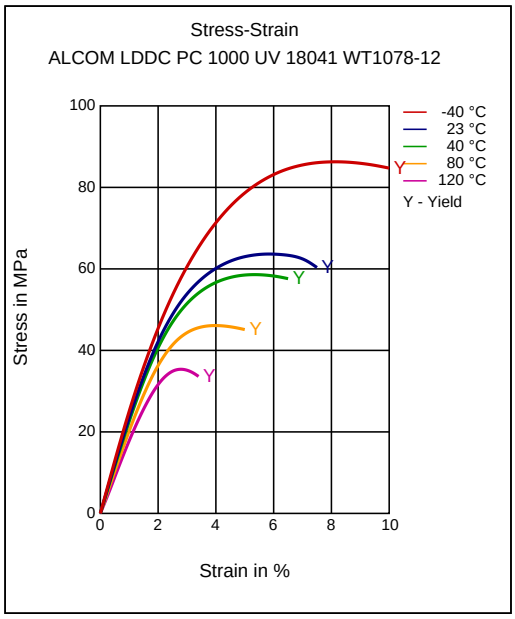
Flammability			
Flammability (0.75 mm)	V-2	class	UL 94
Yellow Card available	yes	-	-
Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 850°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850°C, 2.0mm)	passed	-	DIN EN 60695
Optical Properties			
Total Transmission T(Y) (d=1,0mm, A, 2°)	31	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	20	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	13	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	10	%	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=1,0mm, A, 2°)	57	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	59	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	61	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	62	°	-

Technical Data Sheet

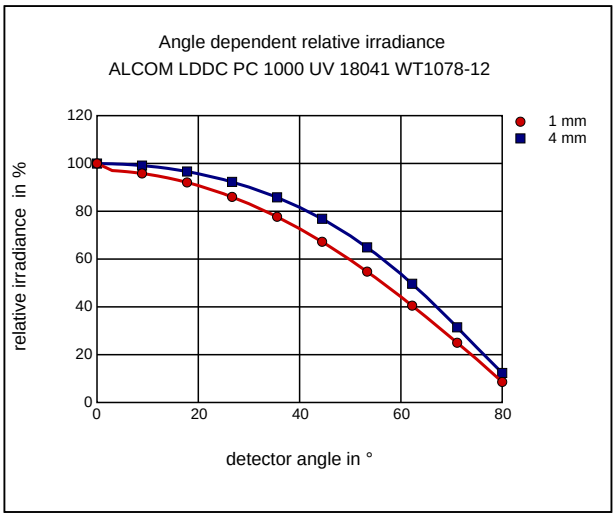
ALCOM LDDC PC 1000 UV 18041 WT1078-12

Diagrams

Stress-Strain



Angle dependent relative irradiance



Spectrum