Technical Data Sheet

Alcom®

MOCOM

ALCOM LDX PC 1000 UV 15064 CC1125-15

Base Polymer	Polycarbonate
Filler/Additive System	special filler,UV stabilised
Special Features	translucent,light scattering,high light diffusion,extrusion grade
Market Segment	Lighting
Application Area	lighting,light transparent components
Typical Applications	lamp covers

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 <0,01 %
Processing Extrusion	extrusion melt temperature 240-280 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2350	MPa	ISO 178
Flexural Stress (3.5% Strain)	72	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	64	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	82	%	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	143	°C	ISO 306
HDT / A (1,8 MPa)	130	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	7	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

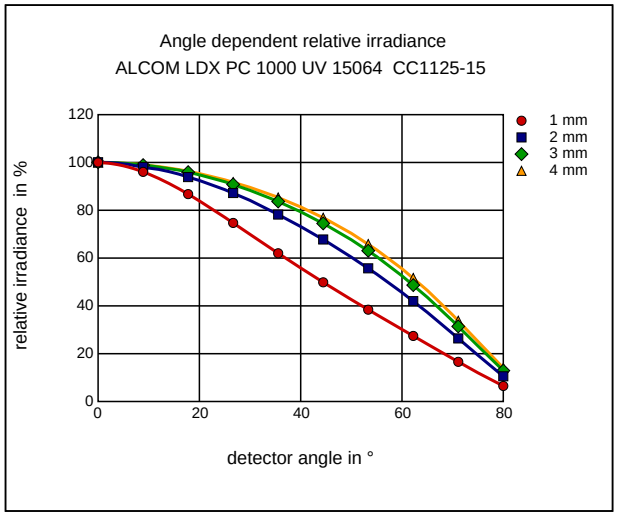
ALCOM LDX PC 1000 UV 15064 CC1125-15

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°)	95.5	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	95.5	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	44	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	57	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	62	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	62	°	-

Diagrams

Angle dependent relative irradiance



Spectrum