

Technical Data Sheet



ALCOM LD2 PC+ABS 1000 SL WT1140-22

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Filler/Additive System	special filler
Special Features	translucent,light scattering,antisqueak-modified,good flow,injection moulding grade
Market Segment	Automotive,Lighting
Application Area	lighting,light transparent components
Typical Applications	lamp covers,display elements,operating elements

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-4 h in an air circulating dryer 100-110 °C for 4-8 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2450	MPa	ISO 178
Flexural Stress (3.5% Strain)	77	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	52	MPa	ISO 527
Tensile Elongation at Yield	3.8	%	ISO 527
Tensile Elongation at Break	25	%	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)	45	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	30	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	122	°C	ISO 306
HDT / A (1,8 MPa)	107	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	40	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
Shrinkage (lengthwise, 24h)	0.3 - 0.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.7	%	ISO 294-4

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Physical Properties

Density	1140	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
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Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	47	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	34.5	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	27	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	22.5	%	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°, high res.)	1	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°, high res.)	1	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°, high res.)	1	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°, high res.)	3	°	-