Technical Data Sheet

ALCOM®

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ALCOM LDDC PC 1000 UV 17183 BK1188-17

(Last update: 27.11.2018)

Base Polymer	Polycarbonate
Filler/Additive System	special filler, UV stabilised
Market Segment	Automotive, Lighting
Application Area	light transparent components, Black Panel-Technology
Typical Applications	display elements, operating elements

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C for 2-3 h dependant on moisture content max. moisture content <0,02 %
Processing Conditions	injection moulding melt temperature 270-310 °C injection moulding mould temperature 80-110 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural modulus	2450	MPa	ISO 178
3.5% Flexural stress	76	MPa	ISO 178
Tensile modulus	2400	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
Charpy impact strength 1eU	no break	kJ/m²	ISO 179/1eU
Charpy impact strength 1eU -40°C	no break	kJ/m²	ISO 179/1eU
Charpy notched impact 1eA	10	kJ/m²	ISO 179/1eA
Charpy notched impact 1eA -40°C	10	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			
MVR	17	cm³/10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	≥0	%	ISO 294-4
Physical Properties			
Density	1190	kg/m³	ISO 1183
Optical Properties			
Total Transmission T(Y) (d=1,0mm, A, 2°)	35	%	ISO 13468

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Total Transmission T(Y) (d=2,0mm, A, 2°)	13	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	5	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	7	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	11	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	15	%	ISO 13468
Half Power Angle T(Y) (d=1mm, A, 2°)	1	°	-
Half Power Angle T(Y) (d=3mm, A, 2°)	1	°	-

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.
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