

ALCOM LD PC 2020 UV 17027 WT1022-17 WHITE

(Last update: 29.05.2017)

Base Polymer	Polycarbonate
Filler/Additive System	special filler, 20 % glass fibres, UV stabilised
Special Features	high light transmission, light scattering, high light diffusion
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 100-120 °C for 2-3 h dependant on moisture content max. moisture content <0,02 %
Processing Conditions	injection moulding melt temperature 310-330 °C injection moulding mould temperature 80-130 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	5450	MPa	ISO 178
Flexural Deflection at Max Force	7,0	%	ISO 178
Tensile Modulus	6080	MPa	ISO 527
Charpy Notched Impact 1eA	8	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	155	°C	ISO 306
HDT / A (1.8 MPa)	142	°C	ISO 75
Rheological Properties			
MVR 300/1.2	14	cm ³ /10 min	ISO 1133
Physical Properties			
Density	1,34	g/cm ³	ISO 1183
Optical Properties			
Total Transmission T(Y) (d=1,0mm, A, 2°)	54,2	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	24,3	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	94,6	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	95,7	%	ISO 13468
Half Power Angle T(Y) (d=1mm, A, 2°)	47	Degree	
Half Power Angle T(Y) (d=4mm, A, 2°)	63	Degree	

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The test values mentioned are guide values only and not binding minimum or maximum figures. These test values have been determined on standardized test specimen and they can be affected by pigmentation, mould design and processing conditions.