

Technical Data Sheet



ALCOM PC 740/25 UV WT1445-06LD

Base Polymer	High Heat Polycarbonate
Filler/Additive System	special filler
Special Features	light scattering, high light diffusion, high heat stabilised, UV stabilised, easy flow
Market Segment	Automotive, Lighting
Application Area	lighting, light transparent components
Typical Applications	lamp covers, display elements, operating elements

Pre-Drying Conditions	130 °C in a dry air (dessiccant) dryer for 2-4 h 130 °C in an air circulating dryer for 4-12 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 320-340 °C mould temperature 100-120 °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)	75	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	67	MPa	ISO 527
Tensile Elongation at Yield	5.5	%	ISO 527
Tensile Elongation at Break	66	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	150	°C	ISO 306
HDT / A (1,8 MPa)	132	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	60	cm ³ /10min	ISO 1133
MVR temperature	330	°C	-
MVR load	2.16	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1190	kg/m ³	ISO 1183

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Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	58	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	95	%	ISO 13468

Diagrams

Stress-Strain

