

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 %
Processing Injection Moulding	melt temperature 320-340 °C mould temperature 100-120 °C
Storage	dry, protected from light

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

