

Technical Data Sheet



ALCOM PC 740/30 UV FR WT1030-08LD

Base Polymer	Polycarbonate
Filler/Additive System	special filler, flame retardant, halogen and phosphorus free, UV stabilised
Special Features	translucent, light scattering, extrusion grade, also suitable for injection molding
Market Segment	Automotive, Lighting, electrical and electronic
Application Area	light transparent components
Typical Applications	lamp covers, display elements, operating elements

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-4 h 120 °C in an air circulating dryer for 4-12 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °C
Processing Extrusion	melt temperature 240-280 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2500	MPa	ISO 178
Flexural Strength	96	MPa	ISO 178
Tensile Modulus	2550	MPa	ISO 527
Tensile Strength	63	MPa	ISO 527
Tensile Elongation at Break	60	%	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)	15	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	13	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	146	°C	ISO 306
HDT / A (1,8 MPa)	131	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	3	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4

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Physical Properties

Density	1190	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	V-2	class	UL 94
Flammability (3.0 mm)	V-0	class	UL 94
Glow Wire (GWFI, 960 °C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 960 °C, 3.0mm)	passed	-	DIN EN 60695

Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	83.5	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	77	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	68	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	60	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	88	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	94	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	95	%	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°)	1	°	-