

Technical Data Sheet



ALCOM PC 740/40 FR UV WT1182-10LB

Base Polymer	Polycarbonate
Filler/Additive System	special filler, flame retardant, chlorine and bromine free, UV stabilised
Special Features	opaque, highly reflective
Market Segment	Automotive, Lighting, electrical and electronic
Application Area	lighting, light blocking components, domestic appliances
Typical Applications	light guides, reflectors, housings

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 %
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Processing Injection Moulding	melt temperature 280-320 °C mould temperature 80-110 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress (3.5% Strain)	81	MPa	ISO 178
Tensile Modulus	2800	MPa	ISO 527
Tensile Stress at Yield	60	MPa	ISO 527
Tensile Elongation at Yield	5.5	%	ISO 527
Tensile Elongation at Break	45	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	140	°C	ISO 306
HDT / A (1,8 MPa)	125	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	12	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1330	kg/m ³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB	class	UL 94

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Yellow Card available	yes	-	-
Flammability (1.5 mm)	V-0	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 850°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 875°C, 0.75mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 900°C, 1.5mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 900°C, 3.0mm)	passed	-	DIN EN 60695

Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	92	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.3	%	ISO 13468