

Technical Data Sheet



ALCOM PC 740/1.1 CF10

Base Polymer	Polycarbonate
Filler/Additive System	10 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity, high stiffness, heat stabilised
Market Segment	Machinery
Application Area	injection moulded parts
Typical Applications	housings, functional components

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-4 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 290-330 °C mould temperature 80-130 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6800	MPa	ISO 178
Flexural Strength	170	MPa	ISO 178
Tensile Modulus	7500	MPa	ISO 527
Tensile Strength at Break	110	MPa	ISO 527
Tensile Elongation at Break	2.5	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	45	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	146	°C	ISO 306
HDT / A (1,8 MPa)	141	°C	ISO 75-1/-2
Electrical Properties			
Surface Resistance	500	Ohm	IEC 62631-3-2
Rheological Properties			
Melt Index (MVR)	7	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.2 - 0.4	%	ISO 294-4

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Physical Properties

Density	1230	kg/m ³	ISO 1183
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Flammability

Flammability (0.75 mm)	V-2	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	V-0	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 850 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695