

Technical Data Sheet



ALCOM PC 740/1.1 CF30

Base Polymer	Polycarbonate
Filler/Additive System	30 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity, high stiffness
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	16500	MPa	ISO 178
Flexural Strength	250	MPa	ISO 178
Tensile Modulus	18800	MPa	ISO 527
Tensile Strength at Break	165	MPa	ISO 527
Tensile Elongation at Break	2	%	ISO 527
Impact Strength (Charpy, 23 °C)	45	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	8.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	7.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	150	°C	ISO 306
HDT / A (1,8 MPa)	144	°C	ISO 75-1/-2
Electrical Properties			
Surface Resistance	100	Ohm	IEC 62631-3-2
Rheological Properties			
Melt Index (MVR)	4	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)	0.1 - 0.3	%	ISO 294-4
Physical Properties			
Density	1320	kg/m ³	ISO 1183

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Flammability

Flammability (1.5 mm)	V-1	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	V-0	class	UL 94
Yellow Card available	yes	-	-