

Technical Data Sheet



ALCOM PC 740/1.1 CF20

Base Polymer	Polycarbonate
Filler/Additive System	20 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity, high stiffness, heat stabilised
Market Segment	Machinery, various
Application Area	injection moulded parts
Typical Applications	housings, functional components, protection caps

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	12800	MPa	ISO 178
Flexural Strength	230	MPa	ISO 178
Tensile Modulus	13800	MPa	ISO 527
Tensile Strength at Break	160	MPa	ISO 527
Tensile Elongation at Break	2.1	%	ISO 527
Impact Strength (Charpy, 23°C)	43	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)	6.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	150	°C	ISO 306
HDT / A (1,8 MPa)	143	°C	ISO 75-1/-2
Electrical Properties			
Surface Resistance	50	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.2	%	ISO 294-4
Shrinkage (lateral, 24h)	0.1 - 0.3	%	ISO 294-4
Physical Properties			
Density	1280	kg/m ³	ISO 1183