

Technical Data Sheet



ALCOM PC 740/1 PTFE20

Base Polymer	Polycarbonate
Filler/Additive System	20 % PTFE
Special Features	improved sliding / wear
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	functional components

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 h dependant on moisture content
Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	49	MPa	ISO 527
Tensile Elongation at Yield	5.5	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23 °C)	170	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	150	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)	9	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	146	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	8	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.7 - 0.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1310	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	V-2	class	UL 94
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695