

Technical Data Sheet



ALCOM TPU 810/3070.1 CF15

Base Polymer	Polyurethane, Estertype
Filler/Additive System	15 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity
Market Segment	Automotive, Machinery
Application Area	various
Typical Applications	functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-110 °C for 1-3 h in an air circulating dryer 80-110 °C for 1-3 h max. moisture content <0,05 %
Processing Injection Moulding	melt temperature 210-230 °C mould temperature 20-40 °C
Processing Extrusion	melt temperature 200-220 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	600	MPa	ISO 178
Flexural Strength	20	MPa	ISO 178
Tensile Modulus	600	MPa	ISO 527
Tensile Strength	45	MPa	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	60	kJ/m ²	ISO 179/1eA
Shore Hardness D (15s)	55	-	ISO 868
Thermal Properties			
Vicat B50	50	°C	ISO 306
HDT / A (1,8 MPa)	62	°C	ISO 75-1/-2
Electrical Properties			
Surface Resistance	25	Ohm	IEC 62631-3-2
Physical Properties			
Density	1250	kg/m ³	ISO 1183