

Technical Data Sheet



ALCOM TPU 810/1998.1 CF

Base Polymer	Polyurethane, Estertype
Filler/Additive System	12 % 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 %
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Processing Injection Moulding	melt temperature 210-230 °C mould temperature 20-40 °C
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Processing Extrusion	melt temperature 200-220 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	410	MPa	ISO 178
Flexural Stress (3.5% Strain)	11	MPa	ISO 178
Tensile Modulus	400	MPa	ISO 527
Tensile Strength at Break	39	MPa	ISO 527
Tensile Elongation at Break	32	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	68	kJ/m ²	ISO 179/1eA
Shore Hardness D (15s)	50	-	ISO 868
Electrical Properties			
Surface Resistance	100	Ohm	IEC 62631-3-2
Physical Properties			
Density	1240	kg/m ³	ISO 1183