

ALCOM TPU 810/1998.1 CF

(Last update: 06.03.2024)

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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 %
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	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

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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