



ALCOM PA66 910/1.1 CF10 PTFE10IM

(Last update: 18.07.2022)



Base Polymer	Polyamide 66
Filler/Additive System	10 % carbon fibres, 10 % PTFE
Special Features	improved sliding / wear, heat stabilised, electrically conductive, reduced surface resistivity, impact modified
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content
Processing Injection Moulding	melt temperature 280-300 °C mould temperature 80-120 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6700 / 4800	MPa	ISO 178
Flexural Strength	185 / 130	MPa	ISO 178
Tensile Modulus	8200 / 5200	MPa	ISO 527
Tensile Strength at Break	125 / 100	MPa	ISO 527
Tensile Elongation at Break	3.8 / 8.1	%	ISO 527
Impact Strength (Charpy, 23°C)	50 / 65	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11 / 14	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	248 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 500	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1190 / -	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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