

WIC PP 10 N

(Last update: 20.05.2019)

Base Polymer	Polypropylene
Filler	10% carbon fiber
Colour	natural (carbon optic)
Special Features	heat ageing stabilisation
Market Segment	Automotive, Sport

Pre-drying Conditions	80°C in an air circulating dryer for 2-4h, dependant on moisture content 0,15% max. moisture content
Processing Conditions	injection moulding, melt temperature 210-260°C injection moulding, mould temperature 20-50°C Under certain conditions, the increased thermal conductivity must be considered.
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile modulus	6000	MPa	ISO 527
Tensile strength at break	60	MPa	ISO 527
Tensile elongation at break	2	%	ISO 527
Charpy impact strength 1eU	30	kJ/m ²	ISO 179/1eU
Charpy notched impact 1eA	6	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	102	°C	ISO 306
HDT / A (1,8 MPa)	147	°C	ISO 75-1/-2
DSC (Melt Point)	160	°C	ISO 11357
Electrical Properties			
Surface resistance max.	1500	Ohm	IEC 62631-3-2
Specific volume resistance	10	Ohm*m	IEC 62631-3-1
Rheological Properties			
MVR	25	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4
Molding shrinkage, normal	0.4	%	ISO 294-4
Physical Properties			
Density	950	kg/m ³	ISO 1183

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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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