

WIC PP 20 BK

(Last update: 20.05.2019)

Base Polymer	Polypropylene
Filler	20% carbon fiber
Colour	black
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	9000	MPa	ISO 527
Tensile strength at break	80	MPa	ISO 527
Tensile elongation at break	1.9	%	ISO 527
Charpy impact strength 1eU	48	kJ/m ²	ISO 179/1eU
Charpy notched impact 1eA	9	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	115	°C	ISO 306
HDT / A (1,8 MPa)	150	°C	ISO 75-1/-2
DSC (Melt Point)	160	°C	ISO 11357
Rheological Properties			
MVR	12	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4
Molding shrinkage, normal	0.3	%	ISO 294-4
Physical Properties			
Density	1020	kg/m ³	ISO 1183

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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