

WIC PP 40 N; BK; BKD

(Stand: 21.05.2021)

Base Polymer	Polypropylene
Filler	40% carbon fiber
Colour	Nature (carbon look), black, deep black
Special Features	heat aging stabilisation
Typical Applications	automotive, sport

Pre Drying Conditions	Circulation-air dryer 80°C for 2-4h, dependant on moisture content max. moisture content <0,10%
Processing Conditions	injection moulding melt temperature 210-260°C injection moulding mould temperature 30-60°C Under certain circumstances, the thermal conductivity has to be considered.
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile modulus	15500	MPa	ISO 527-1/-2
Tensile strength	93	MPa	ISO 527-1/-2
Tensile elongation at break	1	%	ISO 527-1/-2
Flexural modulus	17800	MPa	ISO 178
Flexural strength	153	MPa	ISO 178
Charpy Impact strength unnotched 23°C	36	kJ/m ²	ISO 179/1eU
Charpy Impact strength unnotched -40°C	-	kJ/m ²	ISO 179/1eU
Charpy Impact strength notched 23°C	9	kJ/m ²	ISO 179/1eA
Charpy Impact strength notched -40°C	-	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	-	°C	ISO 306
HDT/A (1,8 MPa)	156	°C	ISO 75-1/-2
Melt Point (DSC)	160	°C	ISO 11357
Electrical properties			
Surface resistance max.	≤10	Ohm	IEC 62631-3-2
Specific volume resistance	≤10	Ohm*cm	IEC 62631-3-1
Rheological Properties			
MVR	2	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	5	kg	-
Shrinkage - lengthwise	0,1	%	ISO 294-4
Shrinkage - lateral	0,1	%	ISO 294-4

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Physical Properties

Density	1130	kg/m ³	ISO 1183
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CO₂-Footprint (GWP100)	1,17	[kg CO₂ eq.]	GaBi (DIN EN ISO 14040/14044)
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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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