

WIC PA6 15 N; BK

(Stand: 20.05.2021)

Base Polymer	Polyamide 6
Filler	15% carbon fiber
Colour	natural (carbon optic), black
Special Features	medium viscosity
Typical Applications	automotive, sports

Pre Drying Conditions	dry-air dryer 80°C for 2-8h, dependant on moisture content max. moisture content <0,12%
Processing Conditions	injection moulding melt temperature 250-270°C injection moulding mould temperature 60-100°C Under certain circumstances, the thermal conductivity has to be considered.
Storage	dry, protected from light

Properties	Value (dry)	Value (conditioned)	Dimension	Test Norm
Mechanical Properties				
Tensile modulus	12000	6000	MPa	ISO 527-1/-2
Tensile strength	160	95	MPa	ISO 527-1/-2
Tensile elongation at break	2,6	6	%	ISO 527-1/-2
Flexural modulus	10100	-	MPa	ISO 178
Flexural strength	245	-	MPa	ISO 178
Charpy impact strength unnotched 23°C	48	68	kJ/m ²	ISO 179/1eU
Charpy impact strength unnotched -40°C	-	-	kJ/m ²	ISO 179/1eU
Charpy impact strength notched 23°C	6	10	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)	206	-	°C	ISO 75
Melt Point (DSC)	220	-	°C	ISO 11357
Electrical Properties				
Surface resistance max.	161	-	Ohm	IEC 62631-3-2
Volume resistance	161	-	Ohm*m	IEC 62631-3-1
Rheological Properties				
MVR	80	-	cm ³ /10min	ISO 1133
MVR temperature	275	-	°C	-
MVR load	5	-	kg	-
Shrinkage - lengthwise	0,2	-	%	ISO 294-4
Shrinkage - lateral	0,5	-	%	ISO 294-4
Physical Properties				

WIC PA6 15 N; BK

(Stand: 20.05.2021)

Density	1200	-	kg/m ³	ISO 1183
CO ₂ -Footprint (GWP100)	5,91		[kg CO ₂ eq.]	GaBi (DIN EN ISO 14040/14044)

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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended. The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations.

NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO; SAFETY-CRITICAL COMPONENTS OR SYSTEMS.

Important: Irrespective of product type or designation, WIPAG does not recommend or support the use of any products it supplies which fall in the following medical, pharmaceutical or diagnostic application categories.

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant applications for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.