

**Product Texts**

Base Polymer	Polyamide 6
Filler	15% carbon fiber
Colour	natural (carbon optic)
Special Features	medium viscosity
Market Segment	Automotive, Sport

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>80 / *</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>275 / *</b>	°C	-
Load	<b>5 / *</b>	kg	-
Molding shrinkage, parallel	<b>0.2 / *</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.5 / *</b>	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>12000 / 6000</b>	MPa	ISO 527
Tensile Strength	<b>160 / 95</b>	MPa	ISO 527
Strain at break	<b>2.6 / 6</b>	%	ISO 527
Flexural modulus, 23°C	<b>10100 / -</b>	MPa	ISO 178
Flexural strength	<b>245 / -</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>48 / 68</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>6 / 10</b>	kJ/m <sup>2</sup>	ISO 179/1eA

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>220 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>206 / *</b>	°C	ISO 75-1/-2

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	<b>1.61 / -</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>* / 161</b>	Ohm	IEC 62631-3-2

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1200 / -</b>	kg/m <sup>3</sup>	ISO 1183
Global warming potential	<b>5.91</b>	kg CO <sub>2</sub> eq./kg	ISO 14040, 14044

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>2 - 8</b>	h	-
Processing humidity	<b>≤0.12</b>	%	-
Melt temperature	<b>250 - 270</b>	°C	-
Mold temperature	<b>60 - 100</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive, Sports Equipment

**Delivery form**

Natural Color

**Regional Availability**

Europe