

Product Texts

Base Polymer	Polypropylene
Filler	40% carbon fiber
Colour	natural (carbon optic)
Special Features	heat ageing stabilisation
Market Segment	Automotive, Sport

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	2	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.1	%	ISO 294-4, 2577

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15500	MPa	ISO 527
Tensile Strength	93	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus, 23°C	17800	MPa	ISO 178
Flexural strength	153	MPa	ISO 178
Charpy impact strength, +23°C	36	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9	kJ/m ²	ISO 179/1eA

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	160	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	156	°C	ISO 75-1/-2

Electrical properties

	Value	Unit	Test Standard
ISO Data			
Volume resistivity	0.1	Ohm*m	IEC 62631-3-1
Surface resistivity	10	Ohm	IEC 62631-3-2

Other properties

	Value	Unit	Test Standard
Density	1130	kg/m ³	ISO 1183
Global warming potential	1.17	kg CO ₂ eq./kg	ISO 14040, 14044

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	210 - 260	°C	-
Mold temperature	30 - 60	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Natural Color

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, Sports Equipment

Regional Availability

Europe