

Product Texts

Base Polymer	Polypropylene
Filler	10% carbon fiber
Colour	black
Special Features	low emission, heat ageing stabilisation
Market Segment	Automotive, Sport

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	33	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6000	MPa	ISO 527
Tensile Strength	60	MPa	ISO 527
Strain at break	4.5	%	ISO 527
Flexural modulus, 23°C	4500	MPa	ISO 178
Flexural strength	94	MPa	ISO 178
Charpy impact strength, +23°C	32	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6	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	147	°C	ISO 75-1/-2
Vicat softening temperature, B	102	°C	ISO 306

Electrical properties

	Value	Unit	Test Standard
ISO Data			
Volume resistivity	10	Ohm*m	IEC 62631-3-1
Surface resistivity	1500	Ohm	IEC 62631-3-2

Other properties

	Value	Unit	Test Standard
Density	970	kg/m ³	ISO 1183
Global warming potential	1.74	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

Features

Low Emission

Delivery form

Black

Applications

Automotive, Sports Equipment

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe