

Product Texts

Base Polymer	Polyamide 66
Filler	20% carbon fiber
Colour	black
Special Features	medium viscosity
Market Segment	Automotive, Sport

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15 / *	cm ³ /10min	ISO 1133
Temperature	300 / *	°C	-
Load	1.2 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	16000 / 11000	MPa	ISO 527
Tensile Strength	195 / 140	MPa	ISO 527
Strain at break	2.2 / 4	%	ISO 527
Flexural modulus, 23°C	12500 / 10000	MPa	ISO 178
Flexural strength	280 / 224	MPa	ISO 178
Charpy impact strength, +23°C	50 / 63	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6 / 8	kJ/m ²	ISO 179/1eA

Thermal properties

	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	254 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	250 / *	°C	ISO 306

Electrical properties

	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	0.6 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 90	Ohm	IEC 62631-3-2

Other properties

	dry / cond	Unit	Test Standard
Water absorption	6.2 / *	%	Sim. to ISO 62
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1230 / -	kg/m ³	ISO 1183
Global warming potential	5.6	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 - 8	h	-
Processing humidity	≤0.12	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 120	°C	-

Characteristics**Processing**

Injection Molding

Applications

Automotive, Sports Equipment

Delivery form

Black

Regional Availability

Europe