

Product Texts

Base Polymer	Polyamide 6
Filler	30% carbon fiber
Colour	natural (carbon optic)
Special Features	medium viscosity
Market Segment	Automotive, Sport

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	22500 / 11500	MPa	ISO 527
Tensile Strength	200 / 125	MPa	ISO 527
Strain at break	1.5 / 3.2	%	ISO 527
Flexural modulus, 23°C	20000 / 11500	MPa	ISO 178
Flexural strength	290 / 200	MPa	ISO 178
Charpy impact strength, +23°C	55 / 65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10 / 14	kJ/m ²	ISO 179/1eA

Thermal properties

	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	215 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	215 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	6.7 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	103 / *	E-6/K	ISO 11359-1/-2

Electrical properties

	dry / cond	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

	dry / cond	Unit	Test Standard
Density	1270 / -	kg/m ³	ISO 1183
Global warming potential	5.23	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	250 - 270	°C	-
Mold temperature	60 - 100	°C	-

Characteristics**Processing**

Injection Molding

Applications

Automotive, Sports Equipment

Delivery form

Natural Color

Regional Availability

Europe