Generic Nylon 66 - Glass\Carbon Fiber

Polyamide 66

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Nylon 66 - Glass\Carbon Fiber
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass, carbon fiber reinforced materials		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.17 - 1.70	g/cm³	ASTM D792
23°C	1.32 - 1.40	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.20 - 0.51	%	ASTM D955
23°C	0.24 - 0.46	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	12300 - 14000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	184 - 201	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	2.0 - 3.0	%	ISO 527-2
Fracture, 23°C	1.3 - 5.5	%	ASTM D638
Fracture, 23°C	1.5 - 4.0	%	ISO 527-2
Flexural Modulus (23°C)	7400 - 17600	MPa	ISO 178
Flexural Stress (23°C)	261 - 293	MPa	ISO 178
Coefficient of Friction	0.28 - 0.32		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.9 - 10	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50 - 65	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, not annealed	235 - 250	°C	ASTM D648
1.8 MPa, not annealed	245 - 250	°C	ISO 75-2/A
Continuous Use Temperature	120	°C	ASTM D794
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity			
--	1.0E+3 - 1.3E+8	ohms	ASTM D257
--	1.0E+2 - 2.5E+10	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature	75.0 - 105	°C	

Drying Time	3.0 - 11	hr
Rear Temperature	299 - 300	°C
Middle Temperature	287 - 300	°C
Front Temperature	299 - 300	°C
Nozzle Temperature	290	°C
Processing (Melt) Temp	290 - 298	°C
Mold Temperature	89.4 - 105	°C

Injection instructions

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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