

Generic Nylon 46 - Carbon Fiber

Polyamide 46

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22 - 1.42	g/cm ³	ISO 1183
Molding Shrinkage (23°C)	0.29 - 0.36	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.98 - 1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11000 - 24200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	158 - 243	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.2 - 2.5	%	ISO 527-2
Flexural Modulus (23°C)	9000 - 20000	MPa	ISO 178
Flexural Stress (23°C)	230 - 328	MPa	ISO 178
Coefficient of Friction	0.12 - 0.26		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0 - 8.1	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	49 - 55	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	°C	ISO 75-2/A
CLTE - Flow	8.0E-6 - 3.4E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 2.5E+7	ohms	IEC 60093
Insulation Resistance (23°C)	1.0E+2 - 2.5E+7	ohms	IEC 60167
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 80.1	°C	
Drying Time	5.0 - 7.0	hr	
Rear Temperature	299 - 300	°C	
Middle Temperature	299 - 310	°C	
Front Temperature	299 - 310	°C	
Nozzle Temperature	305	°C	
Processing (Melt) Temp	281 - 310	°C	
Mold Temperature	107 - 130	°C	
Back Pressure	0.172 - 6.00	MPa	
Injection instructions			

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