

Generic Nylon 66/6 - Glass Fiber

Polyamide 66/6 Copolymer

Generic

Message:

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General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.23 - 1.70	g/cm ³	ASTM D792
23°C	1.20 - 1.58	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.20 - 0.65	%	ASTM D955
23°C	0.10 - 0.91	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.35 - 1.8	%	ASTM D570
23°C, 24 hr	0.63 - 5.8	%	ISO 62
Saturated, 23°C	5.0 - 8.0	%	ISO 62
Equilibrium, 23°C, 50% RH	1.5 - 2.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (23°C)	84 - 85		ISO 868
Ball Indentation Hardness	160 - 274	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5200 - 16800	MPa	ISO 527-2
Tensile Stress			
Yield, 23°C	80.0 - 250	MPa	ISO 527-2
Fracture, 23°C	110 - 242	MPa	ISO 527-2
23°C	143 - 174	MPa	ASTM D638
Tensile Strain			
Yield, 23°C	2.0 - 3.0	%	ISO 527-2
Fracture, 23°C	3.0 - 5.1	%	ASTM D638
Fracture, 23°C	1.9 - 4.0	%	ISO 527-2
Flexural Modulus			
23°C	4230 - 9520	MPa	ASTM D790
23°C	5440 - 9110	MPa	ISO 178
Flexural Strength			
23°C	130 - 291	MPa	ASTM D790
23°C	144 - 286	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.9 - 15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	29 - 95	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	43 - 160	J/m	ASTM D256
23°C	2.9 - 16	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	39 - 51	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	224 - 256	°C	ISO 75-2/B
1.8 MPa, not annealed	210 - 250	°C	ASTM D648
1.8 MPa, not annealed	199 - 253	°C	ISO 75-2/A
8.0 MPa, not annealed	60.0 - 176	°C	ISO 75-2/C
Continuous Use Temperature	100 - 230	°C	ASTM D794
Vicat Softening Temperature	195 - 241	°C	ISO 306
Melting Temperature			
--	260	°C	ISO 11357-3
--	242 - 262	°C	ISO 3146
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.5E-5 - 3.0E-5	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5 - 1.1E-4	cm/cm/°C	ISO 11359-2
RTI Elec	65.0 - 67.1	°C	UL 746
RTI Imp	65.0 - 66.1	°C	UL 746
RTI	65.0 - 67.1	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11 - 2.5E+14	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+12 - 2.5E+15	ohms·cm	IEC 60093
Dielectric Strength (23°C)	21 - 35	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	3.56		IEC 60250
Comparative Tracking Index	442 - 605	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	650 - 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	650 - 960	°C	IEC 60695-2-13
Oxygen Index	21 - 27	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	79.0 - 80.0	°C	
Drying Time	2.9 - 4.0	hr	
Suggested Max Moisture	0.20 - 0.21	%	
Rear Temperature	259 - 270	°C	
Middle Temperature	258 - 296	°C	
Front Temperature	255 - 290	°C	
Processing (Melt) Temp	255 - 298	°C	

Mold Temperature	60.0 - 93.0	°C
Injection Pressure	79.5 - 99.0	MPa
Holding Pressure	50.7 - 97.5	MPa

Injection instructions

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