

Generic Nylon 66 - Glass\Mineral

Polyamide 66

Generic

Message:

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General Information			
Filler / Reinforcement	Glass \Mineral		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41 - 1.48	g/cm ³	ASTM D792
23°C	1.35 - 1.51	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.20 - 0.88	%	ASTM D955
23°C	0.39 - 1.2	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.59 - 0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	120 - 123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5960 - 12300	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	82.7 - 120	MPa	ASTM D638
Yield, 23°C	67.5 - 138	MPa	ISO 527-2
Fracture, 23°C	114 - 152	MPa	ASTM D638
Fracture, 23°C	118 - 170	MPa	ISO 527-2
23°C	116 - 139	MPa	ASTM D638
Tensile Strain			
Yield, 23°C	1.9 - 3.1	%	ISO 527-2
Fracture, 23°C	2.0 - 5.2	%	ASTM D638
Fracture, 23°C	1.5 - 3.5	%	ISO 527-2
Flexural Modulus			
23°C	6490 - 7020	MPa	ASTM D790
23°C	3750 - 12500	MPa	ISO 178
Flexural Strength			
23°C	146 - 228	MPa	ASTM D790
23°C	100 - 250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.8 - 10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	19 - 60	kJ/m ²	ISO 179

Notched Izod Impact			
23°C	32 - 66	J/m	ASTM D256
23°C	2.8 - 7.2	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	251 - 258	°C	ASTM D648
0.45 MPa, not annealed	250 - 251	°C	ISO 75-2/B
1.8 MPa, not annealed	220 - 241	°C	ASTM D648
1.8 MPa, not annealed	205 - 243	°C	ISO 75-2/A
Vicat Softening Temperature	200 - 258	°C	ISO 306
Melting Temperature			
--	254 - 265	°C	
--	260	°C	DSC, ISO 3146
CLTE - Flow	1.6E-5 - 3.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.0E+2 - 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (23°C)	3.5 - 26	kV/mm	ASTM D149
Comparative Tracking Index	398 - 600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	78.0 - 90.0	°C	
Drying Time	2.9 - 5.1	hr	
Suggested Max Moisture	0.12 - 0.20	%	
Rear Temperature	264 - 302	°C	
Middle Temperature	277 - 294	°C	
Front Temperature	276 - 288	°C	
Nozzle Temperature	279 - 288	°C	
Processing (Melt) Temp	270 - 298	°C	
Mold Temperature	69.4 - 100	°C	
Injection Pressure	6.89 - 87.6	MPa	
Back Pressure	0.341 - 0.521	MPa	
Screw Speed	60 - 76	rpm	
Injection instructions			

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