

Generic Nylon 6 - Unspecified

Polyamide 6

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement		Filler	
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.22 - 3.04	g/cm ³	ASTM D792
23°C	1.18 - 2.70	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.10 - 1.2	%	ASTM D955
23°C	0.27 - 1.0	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.10 - 1.0	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.80 - 2.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900 - 11500	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	44.8 - 81.9	MPa	ASTM D638
Fracture, 23°C	78.3 - 122	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	1.0 - 3.6	%	ASTM D638
Fracture, 23°C	0.50 - 3.5	%	ISO 527-2
Flexural Modulus			
23°C	4340 - 8390	MPa	ASTM D790
23°C	6150 - 14700	MPa	ISO 178
Flexural Strength			
23°C	48.3 - 193	MPa	ASTM D790
23°C	65.0 - 205	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0 - 8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	25 - 41	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	41 - 120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	122 - 210	°C	ASTM D648

1.8 MPa, not annealed	143 - 201	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.1E+2 - 2.5E+12	ohms	ASTM D257
Volume Resistivity (23°C)	51 - 5.1E+14	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 95.0	°C	
Drying Time	3.0 - 4.0	hr	
Processing (Melt) Temp	250 - 283	°C	
Mold Temperature	60.0 - 92.0	°C	
Injection instructions			

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