

Generic Nylon, Unspecified

Polyamide

Generic

Message:

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General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.01 - 1.45	g/cm³	ASTM D792
23°C	1.02 - 1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.6 - 29	g/10 min	ASTM D1238
Molding Shrinkage			
Flow: 23°C	0.20 - 3.7	%	ASTM D955
Transverse flow: 23°C	0.67 - 2.6	%	ASTM D955
23°C	7.5E-3 - 2.6	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.27 - 1.3	%	ASTM D570
Saturated, 23°C	3.3 - 8.6	%	ISO 62
Equilibrium, 23°C, 50% RH	0.90 - 2.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	71 - 118		ASTM D785
Durometer Hardness (23°C)	75 - 82		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	500 - 4240	MPa	ASTM D638
23°C	590 - 3290	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	22.6 - 186	MPa	ASTM D638
Yield, 23°C	40.0 - 114	MPa	ISO 527-2
Fracture, 23°C	39.0 - 64.9	MPa	ASTM D638
Fracture, 23°C	40.0 - 74.0	MPa	ISO 527-2
23°C	50.7 - 69.9	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	2.5 - 60	%	ASTM D638
Yield, 23°C	5.0 - 8.5	%	ISO 527-2
Fracture, 23°C	0.70 - 51	%	ASTM D638
Fracture, 23°C	2.0 - 200	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	50 - 57	%	ISO 527-2

Flexural Modulus			
23°C	305 - 12700	MPa	ASTM D790
23°C	275 - 3250	MPa	ISO 178
Flexural Strength			
23°C	50.5 - 153	MPa	ASTM D790
23°C	13.5 - 152	MPa	ISO 178
Yield, 23°C	73.6 - 304	MPa	ASTM D790
Coefficient of Friction	0.20 - 1.0		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 - 14	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	10 - 130	J/m	ASTM D256
23°C	4.0 - 85	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	117 - 197	°C	ASTM D648
0.45 MPa, not annealed	113 - 161	°C	ISO 75-2/B
1.8 MPa, not annealed	52.9 - 266	°C	ASTM D648
1.8 MPa, not annealed	59.7 - 147	°C	ISO 75-2/A
Glass Transition Temperature	140	°C	ISO 11357-2
Vicat Softening Temperature	125 - 137	°C	ISO 306
Melting Temperature			
--	198 - 260	°C	
--	55.0 - 260	°C	ISO 11357-3
--	190 - 250	°C	ISO 3146
Linear thermal expansion coefficient			ISO 11359-2
Flow	8.9E-5 - 1.3E-4	cm/cm/°C	ISO 11359-2
Lateral	7.9E-5 - 1.3E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.22 - 3.8	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+5 - 1.0E+14	ohms	ASTM D257
--	1.0E+11 - 1.0E+15	ohms	IEC 60093
Volume Resistivity			
23°C	4.0E+8 - 1.0E+16	ohms·cm	ASTM D257
23°C	1.0E+12 - 1.0E+16	ohms·cm	IEC 60093
Dielectric Strength (23°C)	14 - 28	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	4.80		IEC 60250
Dissipation Factor (23°C)	0.012 - 0.15		IEC 60250
Comparative Tracking Index	598 - 600	V	IEC 60112
Optical	Nominal Value	Unit	Test Method
Haze	0.60 - 1.1	%	ASTM D1003

Injection	Nominal Value	Unit
Drying Temperature	74.6 - 90.1	°C
Drying Time	3.9 - 5.2	hr
Rear Temperature	265 - 280	°C
Middle Temperature	276 - 292	°C
Front Temperature	253 - 301	°C
Processing (Melt) Temp	246 - 327	°C
Mold Temperature	48.9 - 149	°C
Injection Pressure	43.8 - 105	MPa

Injection instructions

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Extrusion	Nominal Value	Unit
Melt Temperature	232 - 314	°C

Extrusion 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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