

Generic Nylon 66 - Proprietary

Polyamide 66

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Proprietary packing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15 - 2.04	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 23°C	0.29 - 2.0	%	ASTM D955
Transverse flow: 23°C	0.75 - 2.1	%	ASTM D955
23°C	0.79 - 1.5	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.30 - 1.1	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30 - 1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	3140 - 15600	MPa	ASTM D638
23°C	3180 - 14100	MPa	ISO 527-2
Tensile Strength			
Fracture, 23°C	71.7 - 206	MPa	ASTM D638
Fracture, 23°C	70.0 - 200	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	2.1 - 9.2	%	ISO 527-2
Fracture, 23°C	1.4 - 21	%	ASTM D638
Fracture, 23°C	1.8 - 6.7	%	ISO 527-2
Flexural Modulus			
23°C	2760 - 12200	MPa	ASTM D790
23°C	2800 - 11600	MPa	ISO 178
Flexural Stress			
23°C	96.0 - 268	MPa	ISO 178
Fracture, 23°C	221 - 413	MPa	ASTM D790
Coefficient of Friction	0.34 - 0.82		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32 - 43	J/m	ASTM D256
23°C	3.9 - 5.1	kJ/m ²	ISO 180

Unnotched Izod Impact			
23°C	420 - 1900	J/m	ASTM D256
23°C	28 - 250	kJ/m ²	ISO 180
Instrumented Dart Impact			
23°C	3.80 - 29.1	J	ASTM D3763
23°C	0.780 - 3.14	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	184 - 262	°C	ASTM D648
0.45 MPa, not annealed	156 - 260	°C	ISO 75-2/B
1.8 MPa, not annealed	236 - 255	°C	ASTM D648
1.8 MPa, not annealed	62.0 - 253	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM D696
Flow	8.5E-6 - 6.3E-5	cm/cm/°C	ASTM D696
Lateral	7.6E-5 - 7.8E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Rear Temperature	271 - 272	°C	
Middle Temperature	288	°C	
Front Temperature	299	°C	
Processing (Melt) Temp	282 - 293	°C	
Mold Temperature	87.8 - 102	°C	
Injection instructions			

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