

Gramid N200GL

Polyamide 66

Grand Pacific Petrochemical Corporation

Message:

Gramid N200GL is a polyamide 66 (nylon 66) product. It can be processed by injection molding and is available in Europe or the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	1.4	%	ISO 294-4
Flow	1.4	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 15512
Relative Viscosity	2.7		ISO 307
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3100	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	86.0	MPa	ISO 527-2
Nominal Tensile Strain at Break (23°C)	25	%	ISO 527-2
Flexural Modulus (23°C)	2700	MPa	ISO 178
Flexural Stress (23°C)	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	4.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	200	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Melting Temperature	260	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity (2.00 mm)	1.0E+14	ohms · cm	IEC 60093
Dielectric Strength (1.00 mm)	32	kV/mm	IEC 60243-1
Comparative Tracking Index (3.00 mm)	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Yellowness Index	-3.3	YI	ASTM D1925

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	4.0 - 6.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	280 - 300	°C
Mold Temperature	50 - 90	°C

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