

Plaslube® NY-1/SI/2

Polyamide 66

Techmer Engineered Solutions

Message:

Plaslube® NY-1/SI/2 is a polyamide 66 (nylon 66) product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: architectural applications.

Features include:

flame retardant/rated flame

ROHS certification

Lubrication

General Information			
Additive	Silicone lubricant (2%)		
Features	Low friction coefficient		
	Noise reduction		
	Noise reduction		
	Lubrication		
Uses	Sound insulation		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	74.5	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	4.5	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength			ASTM D790
--	100	MPa	ASTM D790
Fracture, 23°C	100	MPa	ASTM D790
Compressive Strength	89.6	MPa	ASTM D695
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.090		ASTM D1894
With steel-static	0.090		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	79.4	°C	ASTM D648
CLTE - Flow	8.1E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

Coefficient of Friction, Static, Thrust washer, 40psi, ambient temp.: 0.09
 Coefficient of Friction, Dynamic, Thrust washer, 40psi, 50 ft/min, ambient temp.: 0.09
 Limiting PV, Thrust washer, 100 FPM, ambient temperature: 6E3
 Compressive Strength, ASTM D695, 73°F: 13000 psi

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.12	%
Rear Temperature	282 - 288	°C
Middle Temperature	282 - 288	°C
Front Temperature	277 - 282	°C
Nozzle Temperature	271 - 277	°C
Processing (Melt) Temp	271 - 293	°C
Mold Temperature	54.4 - 93.3	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.345 - 0.689	MPa

Injection instructions

Screw Speed: Medium
 Recommendations for Molding and Tool Conditions: Well vented
 Moisture Content, as received: Product is packaged at 0.2% or less.
 Recommended Max Moisture: 0.12% down to 0.08%

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