Plaslube® NY-1/SI/2

Techmer Polymer Modifiers - *Polyamide 66*

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Silicone Lubricant: 2%		
Features	• Low Friction • Lubricated	• Noise Damping • Sound Damping	
Uses	• Acoustic Barrier		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.015	in/in	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	10800	psi	ASTM D638
Tensile Elongation (Break, 73°F)	4.5	%	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Flexural Strength	14500	psi	ASTM D790
Flexural Strength (Break, 73°F)	14500	psi	ASTM D790
Compressive Strength	13000	psi	ASTM D695
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.090		
vs. Steel - Static	0.090		
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	1.5	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	119		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	175	°F	ASTM D648
CLTE - Flow	4.5E-5	in/in/°F	ASTM D696
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	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

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.12	%
Rear Temperature	540 to 550	°F
Middle Temperature	540 to 550	°F

Front Temperature	530 to 540	°F
Nozzle Temperature	520 to 530	°F
Processing (Melt) Temp	520 to 560	°F
Mold Temperature	130 to 200	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 100	psi

Injection Notes

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

Notes

[1] Typical properties: these are not to be construed as specifications.