

Plaslube® GS-71

 Techmer Polymer Modifiers - *Polyamide 612*
General Information
General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• Molybdenum Disulfide Lubricant
Features	• Lubricated
Uses	• Automotive Applications • Business Equipment • Bushings • Gears
RoHS Compliance	• RoHS Compliant
Appearance	• Grey
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.00		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.015	in/in	ASTM D955
Water Absorption (24 hr)	0.24	%	ASTM D570
Mechanical			
Tensile Strength (Break, 73°F)	9400	psi	ASTM D638
Tensile Elongation (Break, 73°F)	10	%	ASTM D638
Flexural Modulus (73°F)	3.70E+6	psi	ASTM D790
Flexural Strength (Break, 73°F)	14000	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.30		
vs. Steel - Static	0.28		
Impact			
Notched Izod Impact (73°F, 0.125 in)	0.80	ft-lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	114		ASTM D785
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	160	°F	ASTM D648
CLTE - Flow	3.4E-5	in/in/°F	ASTM D696
Flammability			
Flame Rating (0.06 in)	HB		UL 94

Additional Information

Linear Mold Shrinkage, Test Method Unspecified, 1/4" section: 21mil/in
 Thrust Washer Wear Factor, ASTM D3702, 2000 PV, ambient temp.: 130E-10in³min/ft-lb-hr
 Journal Bearing Wear Factor, 5000 PV, ambient temp.: 130E-10in³min/ft-lb-hr
 Coefficient of Friction, Static, Thrust washer, 40psi, ambient temp.: 0.28
 Coefficient of Friction, Dynamic, Thrust washer, 40psi, 50 ft/min, ambient temp.: 0.30
 Limiting PV, Thrust washer, 100 FPM, ambient temp.: 1.2E4

Notes

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

