

Plaslube® GS-71

Polyamide 612

Techmer Engineered Solutions

Message:

Plaslube®GS-71 is a polyamide 612 (nylon 6/12) 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. Plaslube®GS-71 application areas include engineering/industrial accessories, automotive industry and commercial/office supplies.

Features include:

flame retardant/rated flame

ROHS certification

Lubrication

General Information			
Additive	Molybdenum disulfide lubricant		
Features	Lubrication		
Uses	Bushing		
	Gear		
	Application in Automobile Field		
	Business equipment		
RoHS Compliance	RoHS compliance		
Appearance	Grey		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (24 hr)	0.24	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	64.8	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	10	%	ASTM D638
Flexural Modulus (23°C)	25500	MPa	ASTM D790
Flexural Strength (Break, 23°C)	96.5	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.30		ASTM D1894
With steel-static	0.28		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	71.1	°C	ASTM D648
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			

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

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