

Guarniflon PTFE G412 Polytetrafluoroethylene 15% Graphite

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Extruded , Polytetrafluoroethylene (PTFE), Molded

Material Notes:

PTFE G Standard Compound with graphite. Properties: Extremely low coefficient of friction. Fairly good compressive strength. Enhanced chemical resistance. Good wear resistance. Good thermal dissipation. Application: Bearings for high speed on fairly hard surface. Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G412-Polytetrafluoroethylene-15-Graphite.php

Physical Properties	Metric	English	Comments
Density	2.09 - 2.14 g/cc	0.0755 - 0.0773 lb/in ³	extruded; ASTM D792
	2.10 - 2.15 g/cc	0.0759 - 0.0777 lb/in ³	molded; ASTM D792
Deformation	4.0 - 6.0 %	4.0 - 6.0 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	6.5 - 8.0 %	6.5 - 8.0 %	ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	extruded; ASTM D2240
	55 - 60	55 - 60	molded; ASTM D2240
Tensile Strength	>= 14.0 MPa	>= 2030 psi	extruded; ASTM D4894, ASTM D4745
	15.0 - 20.0 MPa	2180 - 2900 psi	molded; ASTM D4894, ASTM D4745
Elongation at Break	>= 70 %	>= 70 %	extruded; ASTM D4745
	170 - 250 %	170 - 250 %	molded; ASTM D4894
Compressive Yield Strength	6.50 - 7.50 MPa	943 - 1090 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.070	0.070	ASTM D1894
K (wear) Factor	60.0 x 10 ⁻⁸ mm ³ /N-M	29.8 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	at PV 100; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	120 - 130 µm/m-°C	66.7 - 72.2 µin/in-°F	ASTM D696

Thermal Properties <i>emperature, Air</i>	Metric	English	Comments
Minimum Service Temperature, Air	-200 °C	-328 °F	

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