

Guarniflon PTFE G453 Polytetrafluoroethylene 25% Carbographite

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Conductive Carbon Filled

Material Notes:

PTFE G Standard Compound with carbon..Properties: Good thermal and electrical conductivity. Good resistance to deformation. Excellent resistance to load with low coefficient of friction and high wear strength. Enhanced chemical resistanceApplications: Bearings for high speed and when fast dissipation of electric charges is needed. Elastic bands for unlubricated compressors. Valve seats.Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G453-Polytetrafluoroethylene-25-Carbographite.php

Physical Properties	Metric	English	Comments
Density	2.04 - 2.10 g/cc	0.0737 - 0.0759 lb/in ³	extruded; ASTM D792
	2.05 - 2.11 g/cc	0.0741 - 0.0762 lb/in ³	molded; ASTM D792
Deformation	2.5 - 4.0 %	2.5 - 4.0 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	5.0 - 6.0 %	5.0 - 6.0 %	ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 67	62 - 67	molded; ASTM D2240
	62 - 67	62 - 67	extruded; ASTM D2240
Tensile Strength	>= 12.0 MPa	>= 1740 psi	extruded; ASTM D4894, ASTM D4745
	14.0 - 18.0 MPa	2030 - 2610 psi	molded; ASTM D4894, ASTM D4745
Elongation at Break	>= 50 %	>= 50 %	extruded; ASTM D4745
	70 - 120 %	70 - 120 %	molded; ASTM D4894
Compressive Yield Strength	7.00 - 9.00 MPa	1020 - 1310 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.11	0.11	ASTM D1894
K (wear) Factor	16.0 - 20.0 x 10 ⁻⁸ mm ³ /N-M	7.94 - 9.93 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	at PV 100; ASTM D3702

Thermal Properties	Metric	English	Comments
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CTE, linear Thermal Properties	100 - 120 Åµm/m-Å°C Metric	55.6 - 66.7 Åµin/in-Å°F English	ASTM D696 Comments
Maximum Service Temperature, Air	260 Å°C	500 Å°F	
Minimum Service Temperature, Air	-200 Å°C	-328 Å°F	

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