

Guarniflon PTFE G456 Polytetrafluoroethylene 25% Hard Carbon

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

Material Notes:

PTFE G Special 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-G456-Polytetrafluoroethylene-25-Hard-Carbon.php

Physical Properties	Metric	English	Comments
Density	2.05 - 2.11 g/cc	0.0741 - 0.0762 lb/in ³	molded; ASTM D792
Deformation	4.0 - 5.5 %	4.0 - 5.5 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	7.0 - 11 %	7.0 - 11 %	ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 70	65 - 70	molded; ASTM D2240
Tensile Strength	12.0 - 16.0 MPa	1740 - 2320 psi	molded; ASTM D4745
Elongation at Break	70 - 110 %	70 - 110 %	molded; ASTM D4745
Compressive Yield Strength	7.00 - 11.0 MPa	1020 - 1600 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.12	0.12	
K (wear) Factor	12.0 - 18.0 x 10 ⁻⁸ mm ³ /N-M	5.96 - 8.94 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	at PV 100; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 110 Åµm/m-Å°C	44.4 - 61.1 Åµin/in-Å°F	ASTM D696
Maximum Service Temperature, Air	260 Å°C	500 Å°F	
Minimum Service Temperature, Air	-200 Å°C	-328 Å°F	

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