

Guarniflon PTFE G418 Polytetrafluoroethylene 15% Glass Fiber, 5% Molybdenum Disulfide

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Glass Filled, Molded

Material Notes:

PTFE G Special Compound with glass fiber and molybdenum disulphite Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G418-Polytetrafluoroethylene-15-Glass-Fiber-5-Molybdenum-Disulfide.php

Physical Properties	Metric	English	Comments
Density	2.20 - 2.30 g/cc	0.0795 - 0.0831 lb/in ³	molded; ASTM D792
Deformation	3.0 - 4.0 %	3.0 - 4.0 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	7.0 - 8.0 %	7.0 - 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	molded; ASTM D2240
Tensile Strength	15.0 - 20.0 MPa	2180 - 2900 psi	molded; ASTM D4745
Elongation at Break	220 - 270 %	220 - 270 %	molded; ASTM D4745
Compressive Yield Strength	8.50 - 9.00 MPa	1230 - 1310 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.080	0.080	
K (wear) Factor	10.0 - 20.0 x 10 ⁻⁸ mm ³ /N-M	4.96 - 9.93 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	at PV 100; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 - 120 Åµm/m-Å°C	50.0 - 66.7 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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