

Guarniflon PTFE G427 Polytetrafluoroethylene 40% Bronze, 5% Molybdenum Disulfide

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Bronze Filled

Material Notes:

PTFE G Special Compound with bronze and molybdenum disulfide. Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G427-Polytetrafluoroethylene-40-Bronze-5-Molybdenum-Disulfide.php

Physical Properties	Metric	English	Comments
Density	3.15 - 3.25 g/cc	0.114 - 0.117 lb/in ³	molded; ASTM D792
Deformation	6.5 - 7.5 %	6.5 - 7.5 %	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	60 - 67	60 - 67	molded; ASTM D2240
Tensile Strength	23.0 - 28.0 MPa	3340 - 4060 psi	molded; ASTM D4745
Elongation at Break	200 - 250 %	200 - 250 %	molded; ASTM D4745
Compressive Yield Strength	6.50 - 8.00 MPa	943 - 1160 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.13	0.13	
K (wear) Factor	10.0 - 15.0 x 10 ⁻⁸ mm ³ /N-M	4.96 - 7.45 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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