

Guarniflon PTFE G420 Polytetrafluoroethylene 50% Steel

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

Material Notes:

PTFE G Special Compound with steel Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G420-Polytetrafluoroethylene-50-Steel.php

Physical Properties	Metric	English	Comments
Density	3.25 - 3.35 g/cc	0.117 - 0.121 lb/in ³	molded; ASTM D792
Deformation	5.5 - 6.5 %	5.5 - 6.5 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	10 - 10.5 %	10 - 10.5 %	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	17.0 - 23.0 MPa	2470 - 3340 psi	molded; ASTM D4745
Elongation at Break	180 - 230 %	180 - 230 %	molded; ASTM D4745
Compressive Yield Strength	10.0 - 10.5 MPa	1450 - 1520 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.13	0.13	
K (wear) Factor	20.0 - 30.0 x 10 ⁻⁸ mm ³ /N-M	9.93 - 14.9 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	at PV 100; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	100 - 120 Åµm/m-Å°C	55.6 - 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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