

Guarniflon PTFE G403 Polytetrafluoroethylene 15% Glass Fiber

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

Material Notes:

PTFE G Standard Compound with glass fiber Properties: Enhanced wear resistance. Enhanced chemical resistance (except for alkali and hydrofluoric acid). Applications: Valve seats, seals, bearings, required to resist sliding and chemicals. Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G403-Polytetrafluoroethylene-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	2.18 - 2.21 g/cc	0.0788 - 0.0798 lb/in ³	extruded; ASTM D792
	2.19 - 2.22 g/cc	0.0791 - 0.0802 lb/in ³	molded; ASTM D792
Deformation	6.0 - 7.0 %	6.0 - 7.0 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	10 - 14 %	10 - 14 %	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 - 65	60 - 65	molded; ASTM D2240
	60 - 65	60 - 65	extruded; ASTM D2240
Tensile Strength	>= 15.0 MPa	>= 2180 psi	extruded; ASTM D4894, ASTM D4745
	17.0 - 24.0 MPa	2470 - 3480 psi	molded; ASTM D4894, ASTM D4745
Elongation at Break	>= 200 %	>= 200 %	extruded; ASTM D4745
	250 - 300 %	250 - 300 %	molded; ASTM D4894
Compressive Yield Strength	6.00 - 7.00 MPa	870 - 1020 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.12	0.12	ASTM D1894
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	110 - 130 μm/m-°C	61.1 - 72.2 μin/in-°F	ASTM D696

Maximum Service Temperature, Air Thermal Properties	260 °C Metric	500 °F English	Comments
Minimum Service Temperature, Air	-200 °C	-328 °F	

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