

## Guarniflon PTFE G405 Polytetrafluoroethylene 25% 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-G405-Polytetrafluoroethylene-25-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G405-Polytetrafluoroethylene-25-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	2.22 - 2.24 g/cc	0.0802 - 0.0809 lb/in <sup>3</sup>	extruded; ASTM D792
	2.23 - 2.25 g/cc	0.0806 - 0.0813 lb/in <sup>3</sup>	molded; ASTM D792
Deformation	4.0 - 6.5 %	4.0 - 6.5 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	7.0 - 10 %	7.0 - 10 %	ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 67	62 - 67	molded; ASTM D2240
	62 - 67	62 - 67	extruded; ASTM D2240
Tensile Strength	>= 13.0 MPa	>= 1890 psi	extruded; ASTM D4894, ASTM D4745
	14.0 - 21.0 MPa	2030 - 3050 psi	molded; ASTM D4894, ASTM D4745
Elongation at Break	>= 180 %	>= 180 %	extruded; ASTM D4745
	230 - 270 %	230 - 270 %	molded; ASTM D4894
Compressive Yield Strength	8.00 - 9.00 MPa	1160 - 1310 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.13	0.13	ASTM D1894
K (wear) Factor	10.0 - 15.0 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	4.96 - 7.45 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	at PV 100; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 - 110 Åµm/m-Å°C	41.7 - 61.1 Åµin/in-Å°F	ASTM D696

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

## Contact Songhan Plastic Technology Co.,Ltd.

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