

## Guarniflon PTFE G400 Polytetrafluoroethylene

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

### Material Notes:

A virgin PTFE with low coefficient of friction, excellent chemical inertness, non-adhesive surface, wide service temperature range, and excellent dielectric properties. Information provided by Guarniflon®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Guarniflon-PTFE-G400-Polytetrafluoroethylene.php](http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G400-Polytetrafluoroethylene.php)

Physical Properties	Metric	English	Comments
Density	2.14 - 2.18 g/cc	0.0773 - 0.0788 lb/in <sup>3</sup>	ASTM D792
Deformation	7.0 - 9.0 %	7.0 - 9.0 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	14 - 17 %	14 - 17 %	ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51 - 60	51 - 60	extruded; ASTM D2240
	>= 58	>= 58	molded; ASTM D2240
Tensile Strength	>= 20.0 MPa	>= 2900 psi	extruded; ASTM D4894
	>= 24.0 MPa	>= 3480 psi	molded; ASTM D4894
Elongation at Break	>= 200 %	>= 200 %	extruded; ASTM D4745
	>= 250 %	>= 250 %	molded; ASTM D4894
Compressive Yield Strength	4.00 - 5.00 MPa	580 - 725 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.060	0.060	ASTM D1894
K (wear) Factor	2900 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	1440 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	120 - 130 Åµm/m-Å°C	66.7 - 72.2 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	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 20.0 kV/mm	>= 508 kV/in	in air, extruded; ASTM D149
	>= 40.0 kV/mm	>= 1020 kV/in	in air, molded; ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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