

## Guarniflon PTFE G416 Polytetrafluoroethylene 40% Bronze, 2% Carbon

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

### Material Notes:

PTFE G Special Compound with bronze Properties: Enhanced compressive strength. Good wear resistance and high thermal conductivity. Application: Unlubricated bearings for high speed excluding hard surfaces. Information provided by Guarniflon®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Guarniflon-PTFE-G416-Polytetrafluoroethylene-40-Bronze-2-Carbon.php](http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G416-Polytetrafluoroethylene-40-Bronze-2-Carbon.php)

Physical Properties	Metric	English	Comments
Density	3.05 - 3.12 g/cc	0.110 - 0.113 lb/in <sup>3</sup>	molded; ASTM D792
Deformation	3.0 - 5.0 %	3.0 - 5.0 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	8.0 - 11 %	8.0 - 11 %	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
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	7.00 - 9.00 MPa	1020 - 1310 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.13	0.13	ASTM D1894
K (wear) Factor	9.00 - 13.0 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	4.47 - 6.45 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	100 - 115 Åµm/m-Å°C	55.6 - 63.9 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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