

Guarniflon PTFE G458 Polytetrafluoroethylene 60% Bronze, 2% Carbon

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

Material Notes:

PTFE G Standard Compound with bronzeProperties: Enhanced compressive strength. Good wear resistance and high thermal conductivity.Application: Unlubricated bearings for high speed excluding hard surfacesInformation provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G458-Polytetrafluoroethylene-60-Bronze-2-Carbon.php

Physical Properties	Metric	English	Comments
Density	3.80 - 3.88 g/cc	0.137 - 0.140 lb/in ³	extruded; ASTM D792
	3.80 - 3.90 g/cc	0.137 - 0.141 lb/in ³	molded; ASTM D792
Deformation	1.5 - 2.5 %	1.5 - 2.5 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	5.0 - 6.0 %	5.0 - 6.0 %	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
	65 - 70	65 - 70	extruded; ASTM D2240
Tensile Strength	>= 13.0 MPa	>= 1890 psi	extruded; ASTM D4894, ASTM D4745
	17.0 - 23.0 MPa	2470 - 3340 psi	molded; ASTM D4894, ASTM D4745
Elongation at Break	>= 80 %	>= 80 %	extruded; ASTM D4745
	100 - 160 %	100 - 160 %	molded; ASTM D4894
Compressive Yield Strength	10.0 - 11.0 MPa	1450 - 1600 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.13	0.13	ASTM D1894
K (wear) Factor	>= 10.0 x 10 ⁻⁸ mm ³ /N-M	>= 4.96 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	at PV 100; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 90.0 µm/m-°C	44.4 - 50.0 µin/in-°F	ASTM D696
Maximum Service Temperature, Air	260 °C	500 °F	

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

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