

## Guarniflon PTFE G455 Polytetrafluoroethylene 35% Carbographe

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Conductive Carbon Filled

### Material Notes:

PTFE G Special Compound with carbon..Properties: Good thermal and electrical conductivity. Good resistance to deformation. Excellent resistance to load with low coefficient of friction and high wear strength. Enhanced chemical resistanceApplications: Bearings for high speed and when fast dissipation of electric charges is needed. Elastic bands for unlubricated compressors. Valve seats.Information provided by Guarniflon®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Guarniflon-PTFE-G455-Polytetrafluoroethylene-35-Carbographe.php](http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G455-Polytetrafluoroethylene-35-Carbographe.php)

Physical Properties	Metric	English	Comments
Density	1.90 - 2.00 g/cc	0.0686 - 0.0723 lb/in <sup>3</sup>	molded; ASTM D792
Deformation	4.0 - 6.0 %	4.0 - 6.0 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	12 - 13.5 %	12 - 13.5 %	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
Tensile Strength	8.00 - 13.0 MPa	1160 - 1890 psi	molded; ASTM D4745
Elongation at Break	40 - 70 %	40 - 70 %	molded; ASTM D4745
Compressive Yield Strength	12.0 - 13.5 MPa	1740 - 1960 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.12	0.12	
K (wear) Factor	20.0 - 30.0 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	9.93 - 14.9 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	65.0 - 100 Åµm/m-Å°C	36.1 - 55.6 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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