

## Guarniflon PTFE G436 Polytetrafluoroethylene 3% Molybdenum Disulfide

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

### Material Notes:

PTFE G Standard Compound with molybdenum disulphite. Enhanced non-stick properties. Low static coefficient of friction. Fairly good resistance to deformation. Applications: Guide bands. Details needing good resistivity. Information provided by Guarniflon®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Guarniflon-PTFE-G436-Polytetrafluoroethylene-3-Molybdenum-Disulfide.php](http://www.lookpolymers.com/polymer_Guarniflon-PTFE-G436-Polytetrafluoroethylene-3-Molybdenum-Disulfide.php)

Physical Properties	Metric	English	Comments
Density	2.18 - 2.24 g/cc	0.0788 - 0.0809 lb/in <sup>3</sup>	molded; ASTM D792
Deformation	5.5 - 6.5 %	5.5 - 6.5 %	ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	
	13 - 14 %	13 - 14 %	after 24hr relaxation; ASTM D621
	@Pressure 13.7 MPa, Time 86400 sec	@Pressure 1990 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50 - 55	50 - 55	molded; ASTM D2240
Tensile Strength	23.0 - 28.0 MPa	3340 - 4060 psi	molded; ASTM D4745
Elongation at Break	230 - 280 %	230 - 280 %	molded; ASTM D4745
Compressive Yield Strength	5.50 - 6.50 MPa	798 - 943 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Coefficient of Friction, Dynamic	0.080	0.080	
K (wear) Factor	3.00 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	1.49 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	110 - 120 Åµm/m-Å°C	61.1 - 66.7 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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