

Isoflon PTFE + 15% Ceramic Polytetrafluoroethylene with 15% Ceramic

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

Material Notes:

Properties: Improved compression resistance Good dielectric characteristics Good thermal insulation Machining can be tricky Applications:

Electrical applications Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PTFE-15-Ceramic-Polytetrafluoroethylene-with-15-Ceramic.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.24 - 2.27 g/cc	2.24 - 2.27 g/cc	ASTM D792
Deformation	5.0 - 7.0 %	5.0 - 7.0 %	Permanent, after Relaxation; ASTM D695
	@Time 86400 sec	@Time 24.0 hour	
	10 - 12 %	10 - 12 %	Under Load; ASTM D621
	@Pressure 0.0000140 MPa, Time 86400 sec	@Pressure 0.00203 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 67	62 - 67	ASTM D2240
Tensile Strength	18.0 - 23.0 MPa	2610 - 3340 psi	ASTM D4894
Elongation at Break	200 - 250 %	200 - 250 %	ASTM D4894
Coefficient of Friction, Dynamic	0.28 - 0.30	0.28 - 0.30	ASTM D1894
Coefficient of Friction, Static	0.30 - 0.32	0.30 - 0.32	ASTM D1894

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 Â°C	500 Â°F	
Minimum Service Temperature, Air	-200 Â°C	-328 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	20.0 - 25.0 kV/mm	508 - 635 kV/in	ASTM D149

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