

## Isoflon PTFE + 25% Carbon Polytetrafluoroethylene with 25% Carbon

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

### Material Notes:

Properties: Improved compression and wear resistance Good thermal conductivity Low permeability Improved coefficient of thermal expansion when combined with ceramic Applications: Seals recommended for high pressure; wear resistant. Information provided by Isoflon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Isoflon-PTFE-25-Carbon-Polytetrafluoroethylene-with-25-Carbon.php](http://www.lookpolymers.com/polymer_Isoflon-PTFE-25-Carbon-Polytetrafluoroethylene-with-25-Carbon.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.05 - 2.12 g/cc	2.05 - 2.12 g/cc	ASTM D792
Deformation	3.0 - 4.0 % @Time 86400 sec	3.0 - 4.0 % @Time 24.0 hour	Permanent, after Relaxation; ASTM D695
	6.0 - 7.0 % @Time 86400 sec, Pressure 13.7 MPa	6.0 - 7.0 % @Time 24.0 hour, Pressure 1990 psi	Under Load; ASTM D695

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 66	62 - 66	ASTM D2240
Tensile Strength	13.0 - 18.0 MPa	1890 - 2610 psi	ASTM D4894
Elongation at Break	60 - 120 %	60 - 120 %	ASTM D4894

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	10000 ohm-cm	10000 ohm-cm	ASTM D257

Descriptive Properties	Value	Comments
Ageing and Weatherability	Stable over 20 years of exposure	
Radiations Resistance (Gamma Rays)	Low	Electrical properties unchanged, Mechanical properties decreased

## **Contact Songhan Plastic Technology Co.,Ltd.**

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