

Isoflon PTFE Polytetrafluoroethylene

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

Material Notes:

Fluoropolymer material specifications. Information provided by Isoflon.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	2.13 - 2.18 g/cc	2.13 - 2.18 g/cc	ISO 12086
Water Absorption	0.0010 %	0.0010 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54 - 60	54 - 60	DIN 53 505
Ball Indentation Hardness	23.0 - 28.0 MPa	3340 - 4060 psi	DIN 53 456
Tensile Strength	20.0 - 30.0 MPa	2900 - 4350 psi	DIN 53455
Elongation at Break	200 - 300 %	200 - 300 %	DIN 53455
Tensile Modulus	0.600 - 0.700 GPa	87.0 - 102 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.070	0.070	on steel

Thermal Properties	Metric	English	Comments
CTE, linear	120 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	66.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	Continuous
Minimum Service Temperature, Air	-200 $\text{Å}^\circ\text{C}$	-328 $\text{Å}^\circ\text{F}$	Continuous

Electrical Properties	Metric	English	Comments
Dielectric Strength	20.0 - 70.0 kV/mm	508 - 1780 kV/in	DIN 53481

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