

Isoflon ECTFE Fluoropolymer

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , ECTFE Fluoropolymer

Material Notes:

Fluoropolymer material specifications. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-ECTFE-Fluoropolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.67 - 1.70 g/cc	1.67 - 1.70 g/cc	ISO 12086
Water Absorption	0.010 %	0.010 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70 - 80	70 - 80	DIN 53 505
Ball Indentation Hardness	55.0 - 65.0 MPa	7980 - 9430 psi	DIN 53 456
Tensile Strength	40.0 - 55.0 MPa	5800 - 7980 psi	DIN 53455
Elongation at Break	200 - 300 %	200 - 300 %	DIN 53455
Tensile Modulus	1.20 - 1.80 GPa	174 - 261 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.65	0.65	on steel

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	44.4 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.150 W/m-K	1.04 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	Continuous
Minimum Service Temperature, Air	-75.0 $\text{Å}^\circ\text{C}$	-103 $\text{Å}^\circ\text{F}$	Continuous

Electrical Properties	Metric	English	Comments
Dielectric Strength	50.0 - 80.0 kV/mm	1270 - 2030 kV/in	DIN 53481

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