

## Isoflon ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Fluorocarbon ETFE/ECTFE, Molded/Extruded

**Material Notes:**

Fluoropolymer material specifications. Information provided by Isoflon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Isoflon-ETFE.php](http://www.lookpolymers.com/polymer_Isoflon-ETFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.75 g/cc	1.70 - 1.75 g/cc	ISO 12086
Water Absorption	0.020 %	0.020 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 72	62 - 72	DIN 53 505
Ball Indentation Hardness	34.0 - 40.0 MPa	4930 - 5800 psi	DIN 53 456
Tensile Strength	36.0 - 48.0 MPa	5220 - 6960 psi	DIN 53455
Elongation at Break	200 - 350 %	200 - 350 %	DIN 53455
Tensile Modulus	0.500 - 1.20 GPa	72.5 - 174 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.40	0.40	on steel

Thermal Properties	Metric	English	Comments
CTE, linear	130 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 100 $^\circ\text{C}$	@Temperature 68.0 - 212 $^\circ\text{F}$	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	150 $^\circ\text{C}$	302 $^\circ\text{F}$	Continuous
Minimum Service Temperature, Air	-100 $^\circ\text{C}$	-148 $^\circ\text{F}$	Continuous

Electrical Properties	Metric	English	Comments
Dielectric Strength	60.0 - 90.0 kV/mm	1520 - 2290 kV/in	DIN 53481

## Contact Songhan Plastic Technology Co.,Ltd.

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