

Isoflon FEP Fluorinated Ethylene Propylene

Category : Polymer , Thermoplastic , Fluoropolymer , FEP , Fluorinated Ethylene Propylene (FEP), Molded/Extruded

Material Notes:

Fluoropolymer material specifications. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-FEP-Fluorinated-Ethylene-Propylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 - 2.17 g/cc	2.12 - 2.17 g/cc	ISO 12086
Water Absorption	0.030 %	0.030 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	DIN 53 505
Ball Indentation Hardness	23.0 - 28.0 MPa	3340 - 4060 psi	DIN 53 456
Tensile Strength	20.0 - 25.0 MPa	2900 - 3630 psi	DIN 53455
Elongation at Break	250 - 350 %	250 - 350 %	DIN 53455
Tensile Modulus	0.350 - 0.700 GPa	50.8 - 102 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.35	0.35	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	0.200 W/m-K	1.39 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	205 $\text{Å}^\circ\text{C}$	401 $\text{Å}^\circ\text{F}$	Continuous
Minimum Service Temperature, Air	-100 $\text{Å}^\circ\text{C}$	-148 $\text{Å}^\circ\text{F}$	Continuous

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.comEmail : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China