

Isoflon PVDF Polyvinyl Dichloride Fluoropolymer

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

Material Notes:

Fluoropolymer material specifications. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PVDF-Polyvinyl-Dichloride-Fluoropolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.78 g/cc	1.75 - 1.78 g/cc	ISO 12086
Water Absorption	0.030 %	0.030 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72 - 82	72 - 82	DIN 53 505
Ball Indentation Hardness	62.0 - 68.0 MPa	8990 - 9860 psi	DIN 53 456
Tensile Strength	38.0 - 50.0 MPa	5510 - 7250 psi	DIN 53455
Elongation at Break	200 - 250 %	200 - 250 %	DIN 53455
Tensile Modulus	0.800 - 1.20 GPa	116 - 174 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.45	0.45	on steel

Thermal Properties	Metric	English	Comments
CTE, linear	100 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	55.6 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.170 W/m-K	1.18 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	-60.0 $\text{Å}^\circ\text{C}$	-76.0 $\text{Å}^\circ\text{F}$	Continuous

Electrical Properties	Metric	English	Comments
Dielectric Strength	40.0 - 80.0 kV/mm	1020 - 2030 kV/in	DIN 53481

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