

Isoflon MFA TFE/Perfluoromethylvinylether Copolymer

Category : Polymer , Thermoplastic , Fluoropolymer , TFE/Perfluoromethylvinylether Copolymer (MFA)

Material Notes:

Fluoropolymer material specifications. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-MFA-TFEPperfluoromethylvinylether-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 - 2.17 g/cc	2.12 - 2.17 g/cc	ISO 12086
Water Absorption	0.025 %	0.025 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 60	57 - 60	DIN 53 505
Tensile Strength	28.0 - 36.0 MPa	4060 - 5220 psi	DIN 53455
Elongation at Break	250 - 360 %	250 - 360 %	DIN 53455
Tensile Modulus	0.440 - 0.480 GPa	63.8 - 69.6 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.28	0.28	on steel

Thermal Properties	Metric	English	Comments
CTE, linear	120 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	66.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 100 $^{\circ}\text{C}$	@Temperature 68.0 - 212 $^{\circ}\text{F}$	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² - $^{\circ}\text{F}$	DIN 52612
Maximum Service Temperature, Air	230 $^{\circ}\text{C}$	446 $^{\circ}\text{F}$	Continuous
Minimum Service Temperature, Air	-150 $^{\circ}\text{C}$	-238 $^{\circ}\text{F}$	Continuous

Electrical Properties	Metric	English	Comments
Dielectric Strength	30.0 - 35.0 kV/mm	762 - 889 kV/in	DIN 53481

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