

Isoflon PCTFE Polychlorotrifluoroethylene

Category : Polymer , Thermoplastic , Fluoropolymer , Polychlorotrifluoroethylene (PCTFE); Molded

Material Notes:

Fluoropolymer material specifications. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PCTFE-Polychlorotrifluoroethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 - 2.16 g/cc	2.10 - 2.16 g/cc	ISO 12086
Water Absorption	0.00 %	0.00 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72 - 80	72 - 80	DIN 53 505
Ball Indentation Hardness	65.0 - 70.0 MPa	9430 - 10200 psi	DIN 53 456
Tensile Strength	32.0 - 40.0 MPa	4640 - 5800 psi	DIN 53455
Elongation at Break	100 - 250 %	100 - 250 %	DIN 53455
Tensile Modulus	1.00 - 2.00 GPa	145 - 290 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.35	0.35	on steel

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 100 $^\circ\text{C}$	@Temperature 68.0 - 212 $^\circ\text{F}$	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² - $^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	170 $^\circ\text{C}$	338 $^\circ\text{F}$	Continuous
Minimum Service Temperature, Air	-273 $^\circ\text{C}$	-459 $^\circ\text{F}$	Continuous

Electrical Properties	Metric	English	Comments
Dielectric Strength	50.0 - 70.0 kV/mm	1270 - 1780 kV/in	DIN 53481

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