

Isoflon POM C Polyacetal C

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Good optical properties High UV resistance Absorbs little moisture Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-POM-C-Polyacetal-C.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	DIN 53479
Water Absorption	0.22 %	0.22 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	65.0 MPa	9430 psi	DIN 53455
Elongation at Break	25 %	25 %	DIN 53455
Tensile Modulus	2.90 GPa	421 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	110 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	61.1 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Melting Point	165 $\text{Å}^\circ\text{C}$	329 $\text{Å}^\circ\text{F}$	DIN 53736
Maximum Service Temperature, Air	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-50.0 $\text{Å}^\circ\text{C}$	-58.0 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DIN 53482
Dielectric Constant	3.7	3.7	DIN 53483
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 - 65.0 kV/mm	508 - 1650 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Nat./Black	

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