

Isoflon PMMA Polymethyl-methacrylate

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

Products with good mechanical performances under friction and good dimensional stability, notably in moist environmentsVery rigid, hardHigh machining precisionInformation provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PMMA-Polymethyl-methacrylate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	DIN 53479
Water Absorption	0.30 %	0.30 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ASTM D785
Tensile Strength	72.0 MPa	10400 psi	DIN 53455
Elongation at Break	4.0 %	4.0 %	DIN 53455
Tensile Modulus	3.14 GPa	455 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 Åµm/m-Å°C	37.8 Åµin/in-Å°F	DIN 52328
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ftÅ²-Å°F	DIN 52612
Melting Point	210 Å°C	410 Å°F	DIN 53736
Maximum Service Temperature, Air	85.0 Å°C	185 Å°F	Continuous; DIN 52612
Minimum Service Temperature, Air	-40.0 Å°C	-40.0 Å°F	Continuous; DIN 52612

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+19 ohm-cm	1.00e+19 ohm-cm	DIN 53482
Dielectric Constant	2.9 @Frequency 1000 Hz	2.9 @Frequency 1000 Hz	DIN 53483
Dielectric Strength	20.0 - 30.0 kV/mm	508 - 762 kV/in	DIN 53481

Descriptive Properties	Value	Comments
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Color Descriptive Properties	Transparent Value	Comments
Fire Rating	M4	CSTB

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