

Isoflon PETP Polyethylene terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Good optical propertiesHigh UV resistanceAbsorbs little moistureInformation provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PETP-Polyethylene-terephthalate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	DIN 53479
Water Absorption	0.25 %	0.25 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	96	96	ASTM D785
Tensile Strength	80.0 MPa	11600 psi	DIN 53455
Elongation at Break	10 %	10 %	DIN 53455
Tensile Modulus	3.00 GPa	435 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ftÅ ² -Å°F	DIN 52612
Melting Point	255 Å°C	491 Å°F	DIN 53736
Maximum Service Temperature, Air	100 Å°C	212 Å°F	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	100 Å°C	212 Å°F	
Minimum Service Temperature, Air	-20.0 Å°C	-4.00 Å°F	Continuous; DIN 52612
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482
Dielectric Constant	3.3	3.3	DIN 53483
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	25.0 - 85.0 kV/mm	635 - 2160 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Nat./Black	

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