

Isoflon PEHD 300 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Products with excellent friction, anti-stick, abrasion and chemical inertia characteristicsVery good impact resistanceNo moisture regainProduct for the food industryInformation provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PEHD-300-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	DIN 53479
Water Absorption	0.00 %	0.00 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	DIN 53505
Tensile Strength	24.0 MPa	3480 psi	DIN 53455
Elongation at Break	800 %	800 %	DIN 53455
Tensile Modulus	0.750 GPa	109 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	200 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	111 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.430 W/m-K	2.98 BTU-in/hr- $\text{ft}\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Melting Point	127 $\text{Å}^\circ\text{C}$	261 $\text{Å}^\circ\text{F}$	DIN 53736
Maximum Service Temperature, Air	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	55.0 $\text{Å}^\circ\text{C}$	131 $\text{Å}^\circ\text{F}$	
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+17 ohm-cm	1.00e+17 ohm-cm	DIN 53482
Dielectric Constant	2.4 @Frequency 1000 Hz	2.4 @Frequency 1000 Hz	DIN 53483

Dielectric Strength Electrical Properties	50.0 - 90.0 kV/mm Metric	1270 - 2290 kV/in English	DIN 53481 Comments
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Descriptive Properties	Value	Comments
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Color	Nat./Black
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Contact Songhan Plastic Technology Co.,Ltd.

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