

Isoflon PEHD 500 High Density Polyethylene

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

Material Notes:

Products with excellent friction, anti-stick, abrasion and chemical inertia characteristics
Very good impact resistance
No moisture regain
Product for the food industry
Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PEHD-500-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	DIN 53479
Water Absorption	0.00 %	0.00 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	DIN 53505
Tensile Strength	28.0 MPa	4060 psi	DIN 53455
Elongation at Break	1200 %	1200 %	DIN 53455
Tensile Modulus	0.900 GPa	131 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	200 $\mu\text{m/m-}^{\circ}\text{C}$	111 $\mu\text{in/in-}^{\circ}\text{F}$	DIN 52328
Thermal Conductivity	0.430 W/m-K	2.98 BTU-in/hr-ft $^{\circ}\text{F}$	DIN 52612
Melting Point	135 $^{\circ}\text{C}$	275 $^{\circ}\text{F}$	DIN 53736
Maximum Service Temperature, Air	80.0 $^{\circ}\text{C}$	176 $^{\circ}\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	60.0 $^{\circ}\text{C}$	140 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-100 $^{\circ}\text{C}$	-148 $^{\circ}\text{F}$	Continuous; DIN 52612
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	DIN 53482
Dielectric Constant	2.4 @Frequency 1000 Hz	2.4 @Frequency 1000 Hz	DIN 53483

Dielectric Strength	45.0 - 90.0 kV/mm	1140 - 2290 kV/in	DIN 53481
Electrical Properties	Metric	English	Comments

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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