

Quadrant EPP Proteus® LDPE - Low Density Polyethylene (ASTM Product Data Sheet)

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Proteus-LDPE-Low-Density-Polyethylene-ASTM-Product-Data-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ASTM D792
Water Absorption	<= 0.010 %	<= 0.010 %	Immersion, 24hr; ASTM D570(2)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ASTM D2240
Tensile Strength	11.7 MPa	1700 psi	ASTM D638
Tensile Strength, Yield	10.3 MPa	1500 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638
Elongation at Yield	100 %	100 %	ASTM D638
Tensile Modulus	0.393 GPa	57.0 ksi	ASTM D638
Flexural Modulus	0.200 GPa	29.0 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256 Type A

Thermal Properties	Metric	English	Comments
Melting Point	110 °C	230 °F	Crystalline, Peak; ASTM D3418
Maximum Service Temperature, Air	71.1 °C	160 °F	Long Term
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	ASTM D648
Flammability, UL94	HB	HB	1/8 inch (Estimated Rating)

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D257
Surface Resistivity per Square	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D257

Compliance Properties	Metric	English	Comments
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Compliance Properties	Metric	English	Comments
Canada AG	No	No	
FDA	Yes	Yes	
NSF	No	No	
USDA	Yes	Yes	
USP Class VI	No	No	

Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Acceptable	Acceptable	
Acids, Weak	Acceptable	Acceptable	
Alcohols	Acceptable	Acceptable	
Alkalies, Strong (pH 11-14)	Acceptable	Acceptable	
Alkalies, Weak	Acceptable	Acceptable	
Chlorinated Solvents	Unacceptable	Unacceptable	
Conductive / Static Dissipative	No	No	
Continuous Sunlight	Limited	Limited	
Hot Water / Steam	Limited	Limited	
Hydrocarbons - Aliphatic	Unacceptable	Unacceptable	
Hydrocarbons - Aromatic	Unacceptable	Unacceptable	
Inorganic Salt Solutions	Acceptable	Acceptable	
Ketones, Esters	Unacceptable	Unacceptable	

Descriptive Properties	Value	Comments
Machinability	3	1-10, 1=Easier to Machine

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