

Quadrant EPP Proteus® PP Natural Co-Polymer Polypropylene (ASTM Product Data Sheet)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Proteus-PP-Natural-Co-Polymer-Polypropylene-ASTM-Product-Data-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ASTM D2240
Tensile Strength	23.4 MPa	3400 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Tensile Modulus	1.05 GPa	152 ksi	ASTM D638
Flexural Strength	33.1 MPa	4800 psi	ASTM D790
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790
Compressive Strength	33.1 MPa	4800 psi	10% Def.; ASTM D695
Compressive Modulus	1.21 GPa	175 ksi	ASTM D695
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256 Type A

Thermal Properties	Metric	English	Comments
Melting Point	152 °C	305 °F	Crystalline, Peak; ASTM D3418
Maximum Service Temperature, Air	82.2 °C	180 °F	Long Term
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °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	
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	No	No	
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
Color	Natural	
Machinability	3	1-10, 1=Easier to Machine

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