

Solvay Specialty Polymers Ajedumâ„ç Films -- VeradelÂ® PES 201 NT Polyethersulfone (PESU)

Category : Polymer , Film , Thermoplastic , Polyethersulfone (PES)

Material Notes:

VeradelÂ® PES 201 NT polyethersulfone is a tough, high-strength thermoplastics that are suitable for continuous use up to 356Â°F (180Â°C). VeradelÂ® film is resistant to oxidation and hydrolysis and withstand prolonged exposure to high temperatures and repeated sterilization. VeradelÂ® 201 NT polyethersulfone films are highly resistant to mineral acids, alkali and salt solutions. Their resistance to detergents and hydrocarbon oils is good, but they will be attacked by polar solvents such as ketones, chlorinated hydrocarbons, and aromatic hydrocarbons. Electrical properties of VeradelÂ® PES films are stable over a wide temperature range and after immersion in water or exposure to high humidity. Features: Acid Resistant; Alkali Resistant; E-beam Sterilizable; Food Contact Acceptable; Good Sterilizability; Good Toughness; High Heat Resistance; High Strength; Hydrolysis Resistant; Oxidation Resistant; Radiation (Gamma) Resistant Uses: Appliance Components; Automotive Electronics; Batteries; Electrical Parts; Electrical/Electronic Applications; Food Service Applications Additional Properties: Area Factor - 142 ftÂ²/lb/mil; Tear Resistance - ASTM D1004 1160 J/cm Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ajedum-Films-Veradel-PES-201-NT-Polyethersulfone-PESU.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/inÂ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ISO 62
Thickness	50.0 microns	1.97 mil	As Tested

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	71.3 MPa	10300 psi	ASTM D882
Film Tensile Strength at Yield, TD	71.4 MPa	10400 psi	ASTM D882
Film Elongation at Break, MD	140 %	140 %	ASTM D882
Film Elongation at Break, TD	140 %	140 %	ASTM D882
Film Elongation at Yield, MD	7.7 %	7.7 %	ASTM D882
Film Elongation at Yield, TD	7.5 %	7.5 %	ASTM D882
Secant Modulus, MD	2.10 GPa	305 ksi	ASTM D882
Secant Modulus, TD	2.09 GPa	303 ksi	ASTM D882
Dart Drop Test	390 g	0.860 lb	ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	66.3 MPa Metric	9620 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	65.8 MPa	9540 psi	ASTM D882

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	220 $^\circ\text{C}$	428 $^\circ\text{F}$	Unannealed; ASTM D648
Oxygen Index	39 %	39 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	3.5 @Frequency 1000 Hz	3.5 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	180 kV/mm	4570 kV/in	ASTM D149
Dissipation Factor	0.0010 @Frequency 1000 Hz	0.0010 @Frequency 1000 Hz	ASTM D150

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	
NSF	Yes	Yes	

Descriptive Properties	Value	Comments
Agency Ratings	FDA 21 CFR 177.1655	
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Yellow	
RoHS Compliance	RoHS Compliant	

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