

Solvay Specialty Polymers Veradel[®] A-301 Polyethersulfone (PESU)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel[®] A-301 is a medium melt flow grade of polyethersulfone (PESU). It is transparent and offers high heat deflection temperatures, excellent toughness and dimensional stability and resistance to steam, boiling water and mineral acids. Other desirable properties include thermal stability, creep resistance and inherent flame resistance. Features: Acid Resistant; Flame Retardant; Food Contact Acceptable; General Purpose; Good Adhesion; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Thermal Stability; Good Toughness; High Heat Resistance; High Tensile Strength; Hydrolysis Resistant; Medium Flow; Medium Molecular Weight; Medium Rigidity Uses: Appliance Components; Appliances; Automotive Electronics; Batteries; Business Equipment; Electrical Parts; Electrical/Electronic Applications; Food Service Applications; Industrial Applications; Microwave Cookware Additional Properties: Water Absorption - ASTM D570 1.9 % Automotive Specifications ASTM D6394 SP0213 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-A-301-Polyethersulfone-PESU.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 380 °C	30 g/10 min @Load 4.76 lb, Temperature 716 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	88.9 MPa	12900 psi	ASTM D638
Elongation at Yield	6.5 %	6.5 %	ASTM D638
Tensile Modulus	2.69 GPa	390 ksi	ASTM D638
Flexural Strength	125 MPa	18100 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 µm/m-°C	28.9 µin/in-°F	
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+15 ohm-cm	1.70e+15 ohm-cm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.51	3.51	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	3.54	3.54	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Dissipation Factor	0.0017	0.0017	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.0022	0.0022	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0056	0.0056	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Processing Properties	Metric	English	Comments
Melt Temperature	345 - 385 Â°C	653 - 725 Â°F	
Mold Temperature	149 Â°C	300 Â°F	
Drying Temperature	175 Â°C	347 Â°F	
	@Time 9000 sec	@Time 2.50 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Value	Comments
	Latin America	
	North America	
Color	Transparent - Slight Yellow	
Form	Pellets	
Processing Technique	Compounding; Injection Molding	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.2:1.0	

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