

Solvay Specialty Polymers Veradel® A-301 Polyethersulfone (PESU) (Unverified Data**)

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. Veradel A-301 is suggested for general purpose injection molding. It is FDA compliant and therefore approved for direct food contact. A low flow grade is available as Veradel A-201. It can be processed by either extrusion or injection molding. This grade was formerly marketed as Radel® A PESU - Natural: Veradel A-301 NT 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-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Water Absorption	1.9 %	1.9 %	30 days; ASTM D570
	0.50 %	0.50 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 380 °C	@Load 4.76 lb, Temperature 716 °F	

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	ASTM D696
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	200 °C Metric	392 °F English	Unannealed; ASTM D648 Comments
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	ASTM D150
Dielectric Strength	3.54	3.54	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	15.0 kV/mm	381 kV/in	
Dissipation Factor	0.0017	0.0017	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.0022	0.0022	
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	0.0056	0.0056	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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

Descriptive Properties	Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	

Appearance Descriptive Properties	Transparent - Slight Yellow Value	Comments
Automotive Specifications	ASTM D6394 SP0213	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
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	
Forms	Pellets	
Generic	PESU	
Processing Method	Compounding	
	Injection Molding	
RoHS Compliance	RoHS Compliant	

Descriptive Properties	Value	Comments
Uses	Appliance Components	
	Appliances	
	Automotive Electronics	
	Batteries	
	Business Equipment	
	Electrical Parts	
	Electrical/Electronic Applications	
	Food Service Applications	
	Industrial Applications	
	Microwave Cookware	

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