

Solvay Specialty Polymers Veradel® 3300 Polyethersulfone (PESU) (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel 3300 polyethersulfone (PESU) is a medium melt flow, transparent grade that 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 3300 is suggested for general purpose injection molding. Three other grades are available: Veradel 3200, a low melt flow grade that can be processed by extrusion or injection molding; Veradel 3400, a high melt flow grade designed for easy molding of parts with thin walls or long flow lengths and Veradel 3600, a very high melt flow grade suggested for compounding, especially of glass or carbon fiber reinforced compounds. This grade was formerly marketed as Gafone™ PESU Features: Acid Resistant; Flame Retardant; 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; General Purpose; Industrial Applications; Microwave Cookware Availability: Africa & Middle East; Asia Pacific; Europe; North America; South America Information provide by Solvay Specialty Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3300-Polyethersulfone-PESU-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
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 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	Annealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

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 @Frequency 1000 Hz	3.5 @Frequency 1000 Hz	ASTM D150
	3.51 @Frequency 60.0 Hz	3.51 @Frequency 60.0 Hz	ASTM D150
	3.54 @Frequency 1.00e+6 Hz	3.54 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Dissipation Factor	0.0017 @Frequency 60.0 Hz	0.0017 @Frequency 60.0 Hz	ASTM D150
	0.0022 @Frequency 1000 Hz	0.0022 @Frequency 1000 Hz	ASTM D150
	0.0056 @Frequency 1.00e+6 Hz	0.0056 @Frequency 1.00e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	343 - 385 $^{\circ}\text{C}$	649 - 725 $^{\circ}\text{F}$	
Mold Temperature	149 - 163 $^{\circ}\text{C}$	300 - 325 $^{\circ}\text{F}$	
Drying Temperature	177 $^{\circ}\text{C}$	351 $^{\circ}\text{F}$	
Dry Time	2.50 hour	2.50 hour	

Descriptive Properties	Value	Comments
Additional Properties	Water Absorption - ASTM D570: 1.9 %	
Agency Ratings	NSF 61	
Appearance	Transparent - Slight Yellow	
Forms	Pellets	
Injection Rate	Fast	
Processing Method	Compounding	
	Injection Molding	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.0:1.0	

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