

Solvay Specialty Polymers Veradel® 3200 Polyethersulfone (PESU) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel 3200 polyethersulfone (PESU) is a low 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 3200 is FDA compliant and is therefore approved for direct food contact. Three other grades are available: Veradel 3300, a medium melt flow grade suggested for general purpose 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 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3200-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	20 g/10 min	20 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

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric	English	Comments
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	ASTM D648 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 @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
Zone 1	335 - 391 °C	635 - 736 °F	
Zone 2	335 - 391 °C	635 - 736 °F	
Zone 3	335 - 391 °C	635 - 736 °F	
Zone 4	335 - 391 °C	635 - 736 °F	
Zone 5	335 - 391 °C	635 - 736 °F	
Adapter Temperature	327 - 371 °C	621 - 700 °F	

Processing Properties	Metric ^{227 - 371 °C}	English ^{621 - 700 °F}	Comments
Melt Temperature	343 - 385 °C	649 - 725 °F	
	343 - 391 °C	649 - 736 °F	
Mold Temperature	149 - 163 °C	300 - 325 °F	
Drying Temperature	177 °C	351 °F	
	177 °C	351 °F	
Dry Time	2.50 hour	2.50 hour	
	2.50 hour	2.50 hour	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	
Appearance	Transparent - Slight Yellow	
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	

Descriptive Properties	High Tensile Strength Value	Comments
	Hydrolysis Resistant	
	Medium Flow	
	Medium Molecular Weight	
	Medium Rigidity	
Forms	Powder	
Generic	PESU	
Injection Rate	Fast	
Processing Method	Compounding	
	Extrusion	
	Injection Molding	
Screw Compression Ratio	2.0:1.0	
Uses	Adhesives	
	Coating Applications	
	Compounding	
	Film	

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