Solvay Specialty Polymers Veradel® 3400 Polyethersulfone (PESU) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel 3400 polyethersulfone (PESU) is a high 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 3400 is designed for easy molding of parts with thin walls or long flow lengths. It is FDA compliant and is therefore approved for direct food contact. Three other grades are available: Veradel 3200, a low melt flow grade that can be processed by extrusion or injection molding; Veradel 3300, a medium melt flow grade suggested for general purpose injection molding 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[™] PESUInformation provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3400-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	ASTMUSTU
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	42 g/10 min	42 g/10 min	
Melt Flow	@Load 2.16 kg, Temperature 380 °C	@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	ASTM D696

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Thermal Properties ture at 1.8 MPa (204 per)	Metric	English	Comments \STM D648
Elammability III 04	V-0	V-0	UL 94
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	UL 54

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
Dielectric constant	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTWIDTSU
	3.51	3.51	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	Activity
	3.54	3.54	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Dissipation Factor	0.0017	0.0017	107110120
Dissipation ractor	@Frequency 60.0 Hz	@Frequency 60.0 Hz	ASTM D150
	0.0022	0.0022	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0056	0.0056	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Agency Ratings	NSF 61	Tested at 82 °C (180 °F) (Commercial Hot)
Appearance	Transparent - Slight Yellow	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	

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Descriptive Properties	Value America Co	mments
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	
Forms	Pellets	
Generic	PESU	
Processing Method	Compounding	
	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Appliances	
	Automotive Electronics	
	Batteries	
	Business Equipment	
	Electrical Parts	
	Electrical/Electronic Applications	

Electrical/Electronic Applications





 Descriptive Properties
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 Industrial Applications
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Contact Songhan Plastic Technology Co.,Ltd.

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