

Solvay Specialty Polymers Veradel® 3250 Polyethersulfone (PESU)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel® 3250 polyethersulfone (PESU) has a slightly higher melt flow rate than Veradel® 3200. This transparent resin offers a high heat deflection temperature, excellent toughness and dimensional stability, and resistance to steam, boiling water and mineral acids.

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: Adhesives; Coating Applications; Compounding; Film
Additional Properties: Water Absorption - ASTM D570 1.9 %
 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3250-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	25 g/10 min @Load 2.16 kg, Temperature 380 °C	25 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	Annealed; ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
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
Dielectric Strength	@Frequency 60.0 Hz	@Frequency 60.0 Hz	ASTM D150
	3.54	3.54	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	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
Dissipation Factor	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	0.0056	0.0056	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Processing Properties	Metric	English	Comments
Zone 1	335 - 391 Â°C	635 - 736 Â°F	
Zone 2	335 - 391 Â°C	635 - 736 Â°F	
Zone 3	335 - 391 Â°C	635 - 736 Â°F	
Zone 4	335 - 391 Â°C	635 - 736 Â°F	
Zone 5	335 - 391 Â°C	635 - 736 Â°F	
Adapter Temperature	327 - 371 Â°C	621 - 700 Â°F	
Melt Temperature	343 - 385 Â°C	649 - 725 Â°F	
Mold Temperature	149 - 163 Â°C	300 - 325 Â°F	

Die Cooling Temperature Processing Properties	327 - 371 Â°C Metric	621 - 700 Â°F English	Comments
Drying Temperature	177 Â°C	351 Â°F	
	177 Â°C	351 Â°F	
	@Time 9000 sec	@Time 2.50 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Transparent - Slight Yellow	
Form	Powder	
Injection Rate	Fast	
Processing Technique	Compounding; Extrusion; Injection Molding	
Screw Compression Ratio	2.0:1.0	

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