

Solvay Specialty Polymers Veradel[®] 3300 ULT Polyethersulfone (PESU)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel[®] polyethersulfone (PESU) is transparent and offers high heat deflection temperatures, excellent toughness and dimensional stability as well as resistance to steam, hot water and mineral acids. Other desirable properties include thermal stability, creep resistance, and inherent flame resistance. Veradel[®] 3200 is a low melt flow grade that can be processed by extrusion or injection molding. It is FDA compliant and approved for direct food contact. Veradel[®] 3300 is a medium melt flow, general purpose grade for injection molding. Veradel[®] 3400 is a high melt flow grade designed for molding of parts with thin walls or long flow lengths. 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: Food Service Applications; General Purpose 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-3300-ULT-Polyethersulfone-PESU.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
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	

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	Deflection Temperature at 1.8 MPa (104 psi) 200 Â°C 392 Â°F Annealed: ASTM D648

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 Â°C	649 - 725 Â°F	
Mold Temperature	149 - 163 Â°C	300 - 325 Â°F	
Drying Temperature	177 Â°C	351 Â°F	
	@Time 9000 sec	@Time 2.50 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	

Descriptive Properties	Latin America Value	Comments
	North America	
Color	Transparent - Slight Yellow	
Form	Pellets	
Injection Rate	Fast	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.0:1.0	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China