

Solvay Specialty Polymers Veradel[®] A-702 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, and resistance to steam, boiling water and mineral acids. Other desirable properties include thermal stability, creep resistance and inherent flame resistance. Features: Acid Resistant; Flame Retardant; Food Contact Acceptable; Good Adhesion; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Thermal Stability; Good Toughness; High Flow; High Heat Resistance; High Tensile Strength; Hydrolysis Resistant; Low Molecular Weight; Medium Rigidity Uses: Adhesives; Coating Applications; Compounding 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-A-702-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	75 g/10 min @Load 2.16 kg, Temperature 380 °C	75 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	Unannealed; 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	
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	
Dissipation Factor	15.0 kV/mm	381 kV/in	ASTM D149
Dielectric Strength	0.0017	0.0017	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.0022	0.0022	
Dissipation Factor	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	0.0056	0.0056	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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	327 - 371 Â°C	621 - 700 Â°F	
Drying Temperature	177 Â°C	351 Â°F	
	177 Â°C	351 Â°F	

Processing Properties	Metric	English	Comments
	@ 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	Pellets		
Injection Rate	Fast		
Processing Technique	Compounding; Injection Molding		
RoHS Compliance	RoHS Compliant		
Screw Compression Ratio	2.2:1.0		

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