Solvay Specialty Polymers Veradel® 3000RP Polyethersulfone (PESU) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel® 3000RP hydroxyl-functionalized polyethersulfones (r-PESU) is an amorphous, high-temperature sulfone polymer featuring reactive end groups to enhance solubility for dissolving or dispersing into solutions and to improve adhesion to substrates when used as a coating. Veradel 3000RP r-PESU offers excellent toughness and outstanding hydrolytic resistance. It resists attack from steam, boiling water and mineral acids. Cast films or coatings of r-PESU are transparent and have additional desirable properties, including long term thermal stability, excellent metal adhesion and formability and inherent flame resistance. Veradel r-PESU polymers are available in two molecular weight regimes. Veradel® 3000RP is a high molecular weight sulfone polymer with a relatively low level of functionality while Veradel 3600RP has a lower molecular weight sulfone polymer (approximately half the molecular weight of the Veradel 3000RP) with roughly 3-5 times higher level of functionality. The differences in molecular weight results in highly varied levels of viscosity, when measured under similar conditions. Typical applications include high-temperature coating formulations and specialty adhesives. All Veradel r-PESU polymers are produced at Solvay's state-of-the-art, world-scale facility in Panoli, India under ISO 9001:2000 and ISO 14001:2004 certified quality management systems.Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3000RP-Polyethersulfone-PESU-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Moisture Absorption at Equilibrium	1.5 %	1.5 %	Measured at time of packing; Internal Method
Particle Size	250 µm	250 µm	D50 Sieve measurement; Internal Method
Viscosity	700 cP	700 сР	25% solution in DMAc (measured at 25% solids); Internal Method
	@Temperature 40.0 °C	@Temperature 104 °F	
	5000 cP	5000 cP	35% solution in DMAc (measured at 25% solids); Internal Method
	@Temperature 40.0 °C	@Temperature 104 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	90.0 MPa	13100 psi	ASTM D638
Elongation at Yield	6.5 %	6.5 %	ASTM D638
Tensile Modulus	2.70 GPa	392 ksi	ASTM D638
Flexural Strength	2.60 MPa	377 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

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Thermal Properties	Metric	English	Comments		
Glass Transition Temp, Tg	220 °C	428 °F	DSC		
Optical Properties	Metric	English	Comments		
Transmission, Visible	90 %	90 %	transparent; thickness not quantified		
Chemical Properties	Metric	English	Comments		
Carboxyl End Groups	50 meq/kg	50 meq/kg	Titration; Internal Method		
Descriptive Properties	Value		Comments		
Appearance	Transparent - Slight Ye	Transparent - Slight Yellow			
Availability	Africa & Middle East	Africa & Middle East			
	Asia Pacific				
	Europe	Europe North America			
	North America				
	South America				
Features	Acid Resistant				
	Flame Retardant				
	Food Contact Acceptab	Food Contact Acceptable			
	Good Adhesion	Good Adhesion Good Chemical Resistance Good Creep Resistance			
	Good Chemical Resista				
	Good Creep Resistance				
	Good Dimensional Stab	ility			
	Good Thermal Stability	Good Thermal Stability Good Toughness			
	Good Toughness				
	High Heat Resistance	High Heat Resistance High Molecular Weight			
	High Molecular Weight				
	High Tensile Strength	High Tensile Strength			
	Hydrolysis Resistant				

Low Flow

Descriptive Properties	Value Healum Rigidity	Comments
Forms	Granules	
	Powder	
Generic	PESU	
Processing Method	Cast Film	
	Coating	
	Solution Processing	
	Spraying	
Residual Solvent (%)	1.5	Gas Chromatography
Uses	Adhesives	
	Cast Film	
	Coating Applications	

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