

Solvay Specialty Polymers Veradel® 3000P Polyethersulfone (PESU)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Veradel® 3000P, 3100P, 3200P, 3400P and 3600P are polyethersulfone (PESU) powders for dissolving or dispersing into solutions. They can also be ground to smaller particle size or blended with other solid particles. The grades differ by their molecular weights, with 3000P the highest and 3600P the lowest. There is a direct correlation between molecular weight and solution viscosity. PESU offers excellent toughness and outstanding hydrolytic resistance. It resists attack from steam, boiling water, and mineral acids. Cast films or coatings of PESU are transparent and have additional desirable properties including long term thermal stability, excellent metal adhesion and formability and inherent flame resistance. Typical applications include high-temperature coating formulations, membranes, advanced high-temperature composites, and specialty adhesives. 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 Heat Resistance; High Molecular Weight; High Tensile Strength; Hydrolysis Resistant; Low Flow; Medium Rigidity Uses: Membranes Additional Properties: Residual Solvent - Internal Method 0.50 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	ISO 62
Viscosity	1450 cP	1450 cP	Solution Viscosity; ASTM D455

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	27.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
Glass Transition Temp, Tg	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	ASTM E1356

Compliance Properties	Metric	English	Comments
NSF	Yes	Yes	NSF 61

Descriptive Properties	Value	Comments
Agency Ratings	NSF 61	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	

Descriptive Properties	Latin America Value	Comments
	North America	
Color	Transparent - Slight Yellow	
Form	Granules; Powder	
Processing Technique	Cast Film; Coating; Solution Processing; Spraying	

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