

Solvay Specialty Polymers Veradel® 3400P Polyethersulfone (PESU) (Unverified Data**)

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. This grade was formerly marketed as Gafone™ PESU Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3400P-Polyethersulfone-PESU-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Water Absorption	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	ASTM D570
Viscosity	370 cP @Temperature 40.0 °C	370 cP @Temperature 104 °F	25% in dimethylacetamide; Internal Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 µm/m-°C	27.2 µin/in-°F	ASTM D696
Glass Transition Temp, Tg	220 °C	428 °F	ASTM E1356

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	Maximum Temperature of Use: 124°C (356°F)
Appearance	Transparent - Slight Yellow	
Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Eurone Value	Comments
	North America	
	South America	
Features	Acid Resistant	
	Flame Retardant	
	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	
Forms	Granules	
	Powder	
Generic	PESU	
Processing Method	Coating	
	Solution Processing	
	Spraying	
Residual Solvent (%)	0.5	Internal Method
Uses	Adhesives	
	Coating Applications	
	Compounding	

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