

Veradel® 3000P

polyethersulfone

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

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Material Status	Commercial: Active			
Africa & Middle EastvailabilityAsia PacificEurope		Latin AmericaNorth America		
Features	 Acid Resistant Chemical Resistant Creep Resistant Flame Retardant Food Contact Acceptable Good Adhesion 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			
Agency Ratings	 NSF STD-61¹ 			
RoHS Compliance	Contact Manufacturer			
Appearance	Transparent - Slight Yellow			
Forms	Granules	• Powder		
• Cast Film • Coating		Solution ProcessingSpraying		
Physical		Typical Value Unit	Test method	
Density / Specific Gravity		1.37	ASTM D792	
Water Absorption (24 hr)		0.60 %	ASTM D570	
Solution Viscosity ²		1450 mPa·s	Internal Method	
Residual Solvent		0.50 %	Internal Method	
Thermal		Typical Value Unit	Test method	
Glass Transition Temperature		220 °C	ASTM E1356	
CLTE - Flow		4.9E-5 cm/cm/°C	ASTM D696	

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Notes

Typical properties: these are not to be construed as specifications.

- ¹ Tested at 82 °C (180 °F) (Commercial Hot). Only products bearing the NSF Mark are Certified.
- ² 25% in dimethylacetamide at 40°C

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