

# 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

### General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North 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-61 <sup>1</sup>	
RoHS Compliance	• Contact Manufacturer	
Appearance	• Transparent - Slight Yellow	
Forms	• Powder	
Processing Method	• Cast Film • Coating	• Solution Processing • Spraying

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.37		ASTM D792
Water Absorption (24 hr)	0.60	%	ASTM D570
Solution Viscosity <sup>2</sup>	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

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

<sup>1</sup> Tested at 82 °C (180 °F) (Commercial Hot). Only products bearing the NSF Mark are Certified.

<sup>2</sup> 25% in dimethylacetamide at 40°C

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