

Veradel® 3100P

Polyethersulfone
Solvay Specialty Polymers

Message:

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 Information	
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	Adhesives
	Coating Applications
	Compounding
	Film
	Membranes
Agency Ratings	NSF 61 2
RoHS Compliance	RoHS Compliant
Forms	Granules
	Powder
Processing Method	Cast Film

Coating
Solution Processing

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.60	%	ASTM D570
Solution Viscosity ¹	800	mPa·s	Internal Method
Residual Solvent	0.50	%	Internal Method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	220	°C	ASTM E1356
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696
NOTE			

1. 25% in dimethylacetamide at 40°C

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