

Veradel® A-304P polyethersulfone

Veradel® A-304P (PESU) is a powder designed for dissolving or dispersing into solutions. It can also be ground to smaller particle size, or blended with other solid particles.

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, advanced high-temperature composites, and specialty adhesives.

Veradel® A-304P is high in molecular weight and viscosity. A lower molecular weight and viscosity grade is available as A-704P.

This grade was formerly marketed as Radel® A PESU

- Natural: Veradel® A-304P NT

General

Material Status	• Commercial: Active	
Availability	<ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific • Europe 	<ul style="list-style-type: none"> • Latin America • North America
Features	<ul style="list-style-type: none"> • Acid Resistant • Chemical Resistant • Creep Resistant • Flame Retardant • Food Contact Acceptable • Good Adhesion • Good Dimensional Stability • Good Thermal Stability 	<ul style="list-style-type: none"> • Good Toughness • High Heat Resistance • High Tensile Strength • Hydrolysis Resistant • Medium Flow • Medium Molecular Weight • Medium Rigidity
Uses	<ul style="list-style-type: none"> • Adhesives • Coating Applications 	• Compounding
RoHS Compliance	• RoHS Compliant	
Appearance	• Transparent – Slight Yellow	
Forms	• Powder	
Processing Method	<ul style="list-style-type: none"> • Cast Film • Coating 	<ul style="list-style-type: none"> • Solution Processing • Spraying

Physical

	Typical Value	Unit	Test method
Density / Specific Gravity	1.37		ASTM D792
Water Absorption (24 hr)	0.60	%	ASTM D570
Residual Solvent	0.50	%	Internal Method
Viscosity – Solution ¹ (40°C)	350	mPa·s	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 25% in Dimethylacetamide

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