

Virantage® VW-10300 P, FP & SFP

Polyethersulfone
Solvay Specialty Polymers

Message:

Virantage® VW-10300 polyethersulfone (PESU) is a non-functionalized, high-temperature sulfone polymer powder. Three grades are offered: Virantage® VW-10300P, Virantage® VW-10300FP, and Virantage® VW-10300SFP providing three particle sizes to meet formulators' specific needs. Their inherent toughness imparts damage tolerance to thermoset composites. Virantage® PESU polymers also offer superior thermal and hydrolytic stability that deliver best-in-class hot-wet performance.

These amorphous thermoplastics may be used to toughen a variety of advanced thermoset composites used to produce high-performance aerospace components. Virantage® PESU tougheners have been used successfully in a variety of thermosetting resin systems including epoxies, phenolics and BMIs. All Virantage® PESU polymers are produced at Solvay's state-of-the-art, world-scale facility in Panoli, India under ISO 9001:2000 and ISO 14001:2004 certified quality management systems.

General Information			
Features	Amorphous		
	Good Thermal Stability		
	Good Toughness		
	High Heat Resistance		
	Hydrolytically Stable		
	Medium Molecular Weight		
	Medium-high Viscosity		
Uses	Aerospace Applications		
RoHS Compliance	Contact Manufacturer		
Forms	Powder		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Solution Viscosity ¹	800	mPa · s	Internal Method
Moisture - Measured at time of packaging ²	1.0	%	Internal Method
Particle Size ³			
VW-10300FP	63.0	µm	
VW-10300P	500	µm	
VW-10300SFP	45.0	µm	
Residual Solvent - Measured by Gas Chromatography	0.20	%	Internal Method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	220	°C	DSC
NOTE			
1.	25% solution in DMAc at 40°C		

2.

Virantage® PESU is hygroscopic and may absorb moisture in storage. Dry no higher than 130°C for a minimum of 3 hours if needed.

3.

Typical Particle Size ~D90 Particle sizes by sieve measurement

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