

## Solvay Specialty Polymers Virantage® VW-10700 RP, RFP, RSFP Polyethersulfone (PESU) (Unverified Data\*\*)&

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

### Material Notes:

Virantage® VW-series functionalized polyethersulfones (r-PESU) are amorphous, high-temperature sulfone polymers featuring reactive end groups to enhance solubility and improve interfacial properties in epoxy thermosets. Their inherent toughness imparts damage tolerance to thermoset composites and excellent flexibility to coatings. Virantage polymers also offer superior thermal and hydrolytic stability that delivers best-in-class hot-wet performance. They are especially suitable for incorporation into advanced composite resin systems used to produce high-performance aerospace components and have been used successfully in a variety of thermosetting resin systems including epoxies, phenolics, and BMIs. Virantage VW-series polymers are available in a range of molecular weights: high (10200), medium (10300) and low (10700). A range of particle sizes are also available to meet formulators' specific needs. 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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Virantage-VW-10700-RP-RFP-RSFP-Polyethersulfone-PESU-nbspUnverified-Datal.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Virantage-VW-10700-RP-RFP-RSFP-Polyethersulfone-PESU-nbspUnverified-Datal.php)

Physical Properties	Metric	English	Comments
Moisture Absorption at Equilibrium	1.5 %	1.5 %	Measured at time of packaging; Internal Method
Particle Size	45 µm	45 µm	VW- 10700RSFP; D90 Particle sizes by sieve measurement
	75 µm	75 µm	VW- 10700RFP; D90 Particle sizes by sieve measurement
	500 µm	500 µm	VW- 10700RP; D90 Particle sizes by sieve measurement
Viscosity	560 cP @Temperature 40.0 °C	560 cP @Temperature 104 °F	35% solution in DMAc; Internal Method
Molecular Weight	21000 g/mol	21000 g/mol	Gel Permeation Chromatography with polystyrene as standard; Internal Method

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	216 °C	421 °F	DSC

Chemical Properties	Metric	English	Comments
Carboxyl End Groups	210 meq/kg	210 meq/kg	Measured by titration of end groups; Internal Method

Descriptive Properties	Value	Comments
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Descriptive Properties	Value & Middle East	Comments
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Amorphous	
	Good Thermal Stability	
	Good Toughness	
	High Heat Resistance	
	Hydrolytically Stable	
	Low Molecular Weight	
	Low Viscosity	
Forms	Pellets	
Generic	PESU	
Processing Method	Coating	
	Compounding	
Residual Solvent (%)	0.15	Measured by Gas Chromatography
Uses	Aerospace Applications	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China