

Veradel® 3500

Polyethersulfone
Solvay Specialty Polymers

Message:

Veradel® polyethersulfone (PESU) is transparent and offers high heat deflection temperatures, excellent toughness and dimensional stability, and resistance to steam, boiling water, and mineral acids. Other desirable properties include thermal stability, creep resistance, and inherent flame resistance. Veradel® 3600 is a very high melt flow grade suggested for compounding, especially of glass or carbon fiber reinforced compounds.

General Information	
UL YellowCard	E36098-100168884
Features	Acid Resistant
	Flame Retardant
	Good Adhesion
	Good Chemical Resistance
	Good Creep Resistance
	Good Dimensional Stability
	Good Thermal Stability
	Good Toughness
	High Flow
	High Heat Resistance
	High Tensile Strength
	Hydrolysis Resistant
	Medium Molecular Weight
	Medium Rigidity
Uses	Compounding
Agency Ratings	NSF 61 3
RoHS Compliance	RoHS Compliant
Appearance	Transparent - Slight Yellow
Forms	Pellets
Processing Method	Compounding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	58	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Water Absorption - 30 days	1.9	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2690	MPa	ASTM D638
Tensile Strength	88.9	MPa	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	125	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	200	°C	ASTM D648
CLTE - Flow	5.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.7E+15	ohms·cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.51		
1 kHz	3.50		
1 MHz	3.54		
Dissipation Factor			ASTM D150
60 Hz	1.7E-3		
1 kHz	2.2E-3		
1 MHz	5.6E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹ (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	177	°C	
Drying Time	2.5	hr	
Processing (Melt) Temp	343 to 385	°C	
Mold Temperature	149 to 163	°C	
Injection Rate	Fast		
Screw Compression Ratio	2.2:1.0		
Extrusion	Nominal Value	Unit	
Drying Temperature	177	°C	
Drying Time	2.5	hr	
Cylinder Zone 1 Temp.	335 to 391	°C	
Cylinder Zone 2 Temp.	335 to 391	°C	
Cylinder Zone 3 Temp.	335 to 391	°C	
Cylinder Zone 4 Temp.	335 to 391	°C	
Cylinder Zone 5 Temp.	335 to 391	°C	
Adapter Temperature	327 to 371	°C	
Melt Temperature	343 to 391	°C	
Die Temperature	327 to 371	°C	

NOTE

1. These flammability ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

