

Veradel[®] A-201 polyethersulfone

Veradel® A-201 is a low melt flow grade of polyethersulfone (PESU). It 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® A-201 is A-301 are FDA compliant and therefore approved for direct food contact.

Veradel® A-201 can be processed by either extrusion or injection molding. A medium flow grade is available as Veradel® A-301. It is suggested for general purpose injection molding.

This grade was formerly marketed as Radel® A PESU

• Natural: Veradel® A-201 NT

General

Material Status	 Commercial: Active 			
Availability	 Africa & Middle East Asia Pacific	EuropeNorth America	South America	
Features	 Acid Resistant Flame Retardant Food Contact Acceptable General Purpose Good Adhesion Good Chemical Resistance 	 Good Creep Resistance Good Dimensional Stability Good Thermal Stability Good Toughness High Heat Resistance High Tensile Strength 	 Hydrolysis Resistant Medium Flow Medium Molecular Weight Medium Rigidity 	
Uses	 Appliance Components Appliances Automotive Electronics Batteries	 Business Equipment Electrical Parts Electrical/Electronic Applications Food Service Application 	 Industrial Applications Microwave Cookware s 	
Agency Ratings	FDA Food Contact, Unspecified Rating			
RoHS Compliance	 RoHS Compliant 			
Automotive Specifications	• ASTM D6394 SP0212			
Appearance	Transparent - Slight Yellow			
Forms	Pellets			
Processing Method	Compounding	Extrusion	 Injection Molding 	

Physical	Typical Value Unit	Test method	
Specific Gravity	1.37	ASTM D792	
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	20 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	

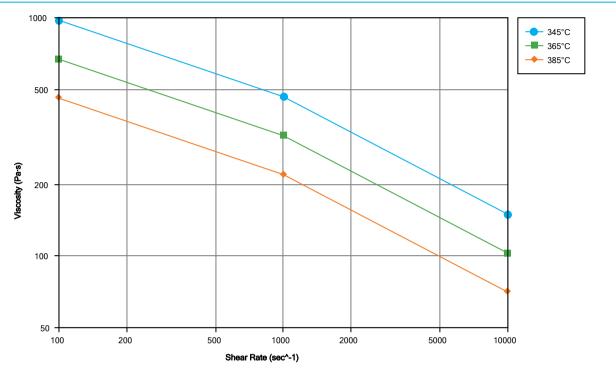
Mechanical	Typical Value Unit	Test method
Tensile Modulus	2690 MPa	ASTM D638
Tensile Strength	88.9 MPa	ASTM D638
Tensile Elongation (Yield)	6.5 %	ASTM D638
Flexural Modulus	2620 MPa	ASTM D790

Veradel[®] A-201

polyethersulfone

Flexural Strength 125 MPa ASTM D790 Impact Typical Value Unit Test method Notched Izod Impact 53 J/m ASTM D256 Thermal Typical Value Unit Test method Deflection Temperature Under Load	Mechanical	Typical Value	Unit	Test method
Notched Izod Impact 53 J/m ASTM D256 Thermal Typical Value Unit Test method Deflection Temperature Under Load 200 °C ASTM D648 1.8 MPa, Unannealed 200 °C ASTM D648 1.8 MPa, Unannealed 200 °C ASTM D666 Electrical Typical Value Unit Test method Volume Resistivity 1.7E+15 ohm-cm ASTM D257 Dielectric Constant ASTM D150 60 Hz 3.51 1 kHz 3.54 D150 60 Hz 0.0017 1 kHz 3.54 D150 60 Hz 0.0017 1 kHz 3.54 D150 60 Hz 0.0022 1 MHz 0.00056 Test method 150 Picetar 0.0017 1 kHz 0.0022 1 MHz 1 MHz 0.00056 Test method 10 Piambility Typical Value Unit Test method Piamobility Typical Value Unit Test method Pring Temperature 0.0056 C Drying Time 2.5 hr				
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Deflection Temperature Under Load ASTM D648 1.8 MPa, Unannealed 200 °C CLTE - Flow 0.000052 cm/cm/°C ASTM D696 Electrical Typical Value Unit Test method Volume Resistivity 1.7E+15 ohm·cm ASTM D257 Dielectric Strength 15 kV/mm ASTM D149 Dielectric Constant ASTM D150 60 Hz 3.51 1 kHz 3.50 1 1 Dissipation Factor ASTM D150 60 Hz 0.0017 1 kHz 0.0022 1 MHz 0.0022 1 MHz 0.0022 1 MHz 0.0056 Flanmability Typical Value Unit Test method Plane Rating 1 (1.50 mm) V-0 UL 94 Injection Typical Value Unit Test method Processing (Metit Temp 345 to 385 °C Mold Temperature Drying Time 2.5 hr Processing (Metit Temp 345 to 385 °C Mold Temperature 175 °C Propring Time 2.2 hr Drying Temperature 175 °C	Notched Izod Impact	53	J/m	ASTM D256
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Melt Temperature 345 to 390 °C				
	Die Temperature			

Viscosity vs. Shear Rate (ISO 11403-2)



Notes

Typical properties: these are not to be construed as specifications.

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

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