

Veradel[®] A-201 polyethersulfone

Veradel® A-201 is a low melt flow general purpose amorphous PESU resin for extrustion injection molding. This transparent grade offers high heat deflection temperature, excellent toughness and dimensional stability and resistance to mineral acids. Other desirable properties include thermal stability, creep resistance and inherent flame resistance. Veradel® A-201 is FDA compliant and is approved for direct food contact. This grade was formerly marketed as Radel® A PESU.

• Natural: Veradel® A-201 NT

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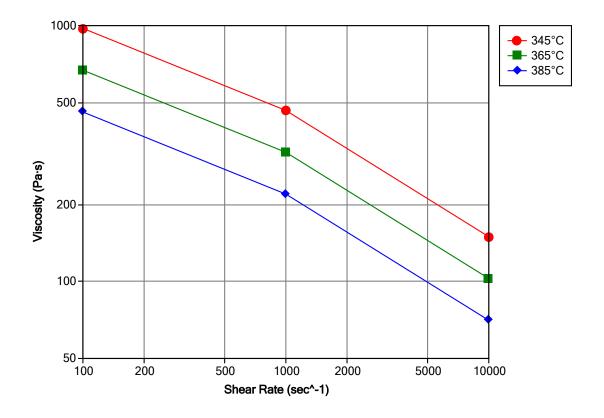
Material Status	 Commercial: Active 	
Availability	 Africa & Middle East Asia Pacific Europe 	Latin AmericaNorth America
Features	 Acid Resistant Chemical Resistant Creep Resistant Flame Retardant Food Contact Acceptable General Purpose Good Adhesion Good Dimensional Stability 	 Good Thermal Stability 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 Applications Industrial Applications Microwave Cookware
Agency Ratings	 FDA Food Contact 	NSF STD-51
RoHS Compliance	RoHS Compliant	
Automotive Specifications	• ASTM D6394 SP0212	
Appearance	 Transparent - Slight Yellow 	
Forms	Pellets	
Processing Method	CompoundingExtrusion	 Injection Molding

Physical	Typical Value Unit	Test method
Density / 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
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		ASTM D648
1.8 MPa, Unannealed	200 °C	
CLTE - Flow	5.2E-5 cm/cm/	°C ASTM D696
Electrical	Typical Value Unit	Test method
Volume Resistivity	1.7E+15 ohms∙cn	n 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	Typical Value Unit	Test method
Flame Rating ¹ (1.5 mm)	V-0	UL 94
Injection	Typical Value Unit	
Drying Temperature	175 °C	
Drying Time	2.5 hr	
Processing (Melt) Temp	345 to 385 °C	
Mold Temperature	135 °C	
Screw Compression Ratio	2.2:1.0	
Extrusion	Typical Value Unit	
Drying Temperature	175 °C	
Drying Time	2.5 hr	
Cylinder Zone 1 Temp.	335 to 390 °C	
Cylinder Zone 2 Temp.	335 to 390 °C	
Cylinder Zone 3 Temp.	335 to 390 °C	
Cylinder Zone 4 Temp.	335 to 390 °C	
Cylinder Zone 5 Temp.	335 to 390 °C	

Extrusion	Typical Value Unit	
Melt Temperature	345 to 390 °C	
Die Temperature	325 to 370 °C	

Viscosity vs. Shear Rate (ISO 11403)



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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