

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 ComponentsAppliancesAutomotive ElectronicsBatteriesBusiness 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	

Typical Value Unit	Test method
1.37	ASTM D792
20 g/10 min	ASTM D1238
0.60 %	ASTM D955
0.50 %	ASTM D570
1.9 %	ASTM D570
	1.37 20 g/10 min 0.60 % 0.50 %

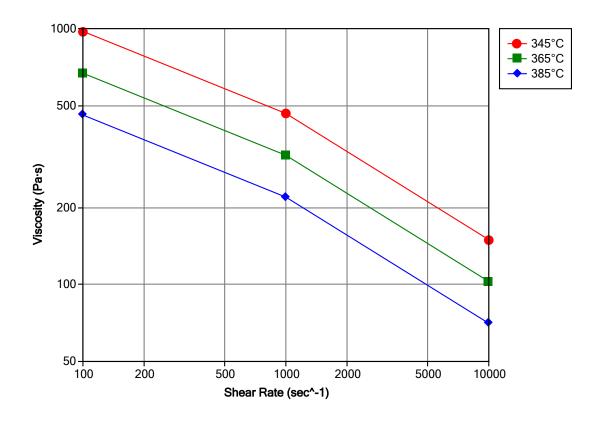
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Mechanical	Typical Value	Unit	Test method
Tensile Modulus	2690	MPa	ASTM D638
Tensile Strength	88.9	MPa	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	125	MPa	ASTM D790
Impact	Typical Value		Test method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load	Typical value	- Critic	ASTM D648
1.8 MPa, Unannealed	200	°C	, 2 5
CLTE - Flow		cm/cm/°C	ASTM D696
Electrical	Typical 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		
l 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		
Drying Time	2.5		
Processing (Melt) Temp	345 to 385		
Mold Temperature	135		
Screw Compression Ratio	2.2:1.0		
derew 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		
Cylinder Zone 4 Temp.	335 to 390		
Cylinder Zone 5 Temp.	335 to 390		
Adapter Temperature	325 to 370		
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Extrusion	Typical Value Unit
Melt Temperature	345 to 390 °C
Die Temperature	325 to 370 °C

Viscosity vs. Shear Rate (ISO 11403)



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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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