

## Solvay Specialty Polymers Veradel® AG-230 Polyethersulfone (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

### Material Notes:

For superior long-term performance at high temperatures in severe service environments. It offers especially good toughness, hydrolytic stability, chemical resistance, plus FDA and USDA compliance. Nov. 2009: Veradel® is the replacement trade name for former Radel® R PESU products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Veradel-AG-230-Polyethersulfone-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-AG-230-Polyethersulfone-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.42 %	0.42 %	in 24 hours per ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	126 MPa	18300 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Elongation at Yield	1.9 %	1.9 %	ASTM D638
Tensile Modulus	8.62 GPa	1250 ksi	ASTM D638
Flexural Yield Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	8.07 GPa	1170 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Tensile Impact Strength	70.0 kJ/m <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 µm/m-°C	17.2 µin/in-°F	ASTM E381
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	31.0 µm/m-°C	17.2 µin/in-°F	ASTM E381
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM D648
UL RTI, Electrical	190 °C	374 °F	
	@Thickness 1.57 mm	@Thickness 0.0618 in	

Thermal Properties	190 °C Metric	374 °F English	Comments
UL RTI, Mechanical with Impact	@Thickness 1.57 mm	@Thickness 0.0618 in	
UL RTI, Mechanical without Impact	190 °C @Thickness 1.57 mm	374 °F @Thickness 0.0618 in	
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	4.1 @Frequency 1000 Hz	4.1 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	18.0 kV/mm @Thickness 3.30 mm	457 kV/in @Thickness 0.130 in	ASTM D149
Dissipation Factor	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	ASTM D150

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