

Solvay Specialty Polymers Veradel® A-100, A-200, A-300 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-A-100-A-200-A-300-Polyethersulfone-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.54 %	0.54 %	in 24 hours per ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	83.0 MPa	12000 psi	ASTM D638
Elongation at Break	40 - 80 %	40 - 80 %	ASTM D638
Elongation at Yield	6.5 %	6.5 %	ASTM D638
Tensile Modulus	2.65 GPa	384 ksi	ASTM D638
Flexural Yield Strength	111 MPa	16100 psi	ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Tensile Impact Strength	340 kJ/m ²	162 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 µm/m-°C	27.2 µin/in-°F	ASTM E381
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	49.0 µm/m-°C	27.2 µin/in-°F	ASTM E381
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	399 °F	ASTM D648
UL RTI, Electrical	180 °C	356 °F	
	@Thickness 1.57 mm	@Thickness 0.0618 in	

Thermal Properties	180 °C Metric	356 °F English	Comments
UL RTI, Mechanical with Impact	@Thickness 1.57 mm	@Thickness 0.0618 in	
UL RTI, Mechanical without Impact	180 °C @Thickness 1.57 mm	356 °F @Thickness 0.0618 in	
Flammability, UL94	V-0 @Thickness 0.600 mm	V-0 @Thickness 0.0236 in	
	V-0 @Thickness 0.600 mm	V-0 @Thickness 0.0236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.70e+15 ohm-cm	1.70e+15 ohm-cm	ASTM D257
Dielectric Constant	3.5 @Frequency 1000 Hz	3.5 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	16.0 kV/mm @Thickness 3.30 mm	406 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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