

Veradel® A-101

Polyethersulfone
Solvay Specialty Polymers

Message:

RADEL A polyethersulfone resin has high thermal deformation temperature, excellent toughness and dimensional stability, and is resistant to water vapor, boiling water and inorganic acids. Other excellent properties include thermal stability, creep resistance and inherent flame retardancy.

General Information			
UL YellowCard	E36098-628755		
Features	Good dimensional stability		
	Good creep resistance		
	acid resistance		
	Steam resistance		
	Thermal stability, good		
	Good toughness		
	Compliance of Food Exposure		
	Flame retardancy		
Uses	Films		
	Pipe fittings		
	Sheet		
Agency Ratings	NSF 51		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ASTM D638
Tensile Strength	83.0	MPa	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	111	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	85	J/m	ASTM D256
Tensile Impact Strength	336	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696
RTI Elec (0.8 mm)	180	°C	UL 746
RTI Imp (0.8 mm)	170	°C	UL 746
Electrical	Nominal 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		ASTM D150
1 kHz	3.50		ASTM D150
1 MHz	3.54		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	1.7E-3		ASTM D150
1 kHz	2.2E-3		ASTM D150
1 MHz	5.6E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	V-0		UL 94
Extrusion	Nominal Value	Unit	
Drying Temperature	177	°C	
Drying Time	2.5	hr	
Cylinder Zone 1 Temp.	327 - 371	°C	
Melt Temperature	343 - 390	°C	

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