



Component - Plastics

File Number: E36098

Solvay Specialty Polymers USA L L C
4500 MCGINNIS FERRY RD, ALPHARETTA GA 30005-2203



Veradel: A-301

Polyethersulfone (PESU), pellets

Flammability	Value	Test Method
Flame Rating		UL 94
0.8 mm, NC	V-0	
1.5 mm, WT, BK	V-0	
3.0 mm, ALL	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.8 mm, NC	V-0	
1.5 mm, WT, BK	V-0	
3.0 mm, ALL	V-0	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.8 mm	PLC 3	
1.5 mm	PLC 3	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746
0.8 mm	PLC 1	
1.5 mm	PLC 1	
3.0 mm	PLC 1	
Comparative Tracking Index (CTI)	PLC 4	UL 746
Dielectric Strength	26 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 2	UL 746
Volume Resistivity	1.0E+15 ohms·cm	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Arc Resistance	PLC 7	ASTM D495
Electric Strength	26 kV/mm	IEC 60243-1
Thermal	Value	Test Method
RTI Elec		UL 746
0.8 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
RTI Imp		UL 746
0.8 mm	170 °C	
1.5 mm	170 °C	
3.0 mm	170 °C	
RTI Str		UL 746
0.8 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
Heat Deflection Temperature ¹		ISO 75-2/A
1.8 MPa, Unannealed	211 °C	
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042

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Physical	Value	Test Method
Dimensional Stability	0.0 %	ISO 2796
Mechanical	Value	Test Method
Tensile Stress (Yield, 4.00 mm)	82.0 MPa	ISO 527-2
Impact	Value	Test Method
Tensile Impact Strength ¹	189 kJ/m ²	ISO 8256
Notes		
¹ 4 mm		

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