



Component - Plastics

File Number: E36098

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



RADEL: R-5600(##)

PPSU, pellets

(##) - Denotes up to six characters consisting of a combination of characters and numbers representing a color code

Flammability	Value	Test Method
Flame Rating		UL 94
0.25 mm, NC, BK	V-0	
0.40 mm, NC, BK	V-0	
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.25 mm, NC, BK	V-0	
0.40 mm, NC, BK	V-0	
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.5 mm	875 °C	
3.0 mm	850 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.25 mm	PLC 0	
0.40 mm	PLC 0	
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
0.25 mm	PLC 0	
0.40 mm	PLC 0	
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 5	UL 746
Dielectric Strength	36 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Volume Resistivity	1.0E+19 ohms·cm	ASTM D257
Volume Resistivity	1.0E+19 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Comparative Tracking Index (3.00 mm)	100 V	IEC 60112
Electric Strength	36 kV/mm	IEC 60243-1

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Thermal	Value	Test Method
RTI Elec		UL 746
0.25 mm	50.0 °C	
0.40 mm	140 °C	
0.75 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
RTI Imp		UL 746
0.25 mm	50.0 °C	
0.40 mm	140 °C	
0.75 mm	170 °C	
1.5 mm	170 °C	
3.0 mm	170 °C	
RTI Str		UL 746
0.25 mm	50.0 °C	
0.40 mm	140 °C	
0.75 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
Ball Pressure Test (125°C, 3.00 mm)	Pass	IEC 60695-10-2

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