



Component - Plastics

File Number: E95746

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



RYTON: BR42B

Polyphenylene Sulfide (PPS), pellets, glass reinforced

Flammability	Value	Test Method
Flame Rating		UL 94
0.71 mm, NC	V-0	
1.0 mm, NC	V-0	
1.5 mm, NC	V-0	
3.0 mm, NC	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.71 mm, NC	V-0	
1.0 mm, NC	V-0	
1.5 mm, NC	V-0	
3.0 mm, NC	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.71 mm	960 °C	
1.0 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.71 mm	850 °C	
1.0 mm	900 °C	
1.5 mm	900 °C	
3.0 mm	900 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.71 mm	PLC 4	
1.0 mm	PLC 4	
1.5 mm	PLC 1	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
0.71 mm	PLC 3	
1.0 mm	PLC 3	
1.5 mm	PLC 3	
3.0 mm	PLC 3	
Comparative Tracking Index (CTI)	PLC 4	UL 746
Dielectric Strength	27 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 4	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	27 kV/mm	IEC 60243-1

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Thermal	Value	Test Method
RTI Elec		UL 746
0.71 mm	180 °C	
1.0 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
RTI Imp		UL 746
0.71 mm	180 °C	
1.0 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
RTI Str		UL 746
0.71 mm	180 °C	
1.0 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
Ball Pressure Test (250°C, 3.00 mm)	Pass	IEC 60695-10-2

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