Component - Plastics

File Number: E115797

LOTTE CHEMICAL CORPORATION

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INFINO: SC-1100R, SC-1100UR, SC-1102UR

Polycarbonate (PC), pellets

Flammability	Value	Test Method
Flame Rating		UL 94
0.75 mm, NC	V-2	
1.5 mm, ALL	V-2	
2.0 mm, ALL	V-2	
2.5 mm, ALL	V-2	
3.0 mm, ALL	V-2	
Flammability Classification		IEC 60695-11-10, -20
0.75 mm, NC	V-2	
1.5 mm, ALL	V-2	
2.0 mm, ALL	V-2	
2.5 mm, ALL	V-2	
3.0 mm, ALL	V-2	
Glow Wire Flammability Index		IEC 60695-2-12
1.5 mm	875 °C	
2.0 mm	875 °C	
2.5 mm	875 °C	
3.0 mm	925 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.5 mm	875 °C	
2.0 mm	900 °C	
2.5 mm	900 °C	
3.0 mm	900 °C	

Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
1.5 mm	PLC 3	
2.0 mm	PLC 3	
2.5 mm	PLC 2	
3.0 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746A
1.5 mm	PLC 0	
2.0 mm	PLC 0	
2.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	24 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 2	UL 746A
Volume Resistivity	1.0E+15 ohms·cm	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Arc Resistance	PLC 6	ASTM D495

Form Number: E115797-100059836

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Report Date: 8/24/1998
Last Revised: 8/26/2024 11:52:33 PM

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Thermal	Value	Test Method
RTI Elec		UL 746B
0.75 mm	80.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
RTI Imp		UL 746B
0.75 mm	80.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
RTI Str		UL 746B
0.75 mm	80.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
Ball Pressure Test (136°C)	Pass	IEC 60695-10-2

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