



Component - Plastics

File Number: E95746

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



Amodel: HFFR-4133 (f1)

Polyphthalamide (PPA), pellets

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

Flammability	Value	Test Method
Flame Rating		UL 94
0.40 mm, NC, BK	V-0	
0.75 mm, NC, BK	V-0	
1.0 mm, NC, BK	V-0	
1.5 mm, NC, BK	V-0, 5VA	
3.0 mm, NC, BK	V-0, 5VA	
Flammability Classification		IEC 60695-11-10, -20
0.40 mm, NC, BK	V-0	
0.75 mm, NC, BK	V-0	
1.0 mm, NC, BK	V-0	
1.5 mm, NC, BK	V-0, 5VA	
3.0 mm, NC, BK	V-0, 5VA	
Glow Wire Flammability Index		IEC 60695-2-12
1.0 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.0 mm	800 °C	
1.5 mm	800 °C	
3.0 mm	875 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.40 mm	PLC 4	
0.75 mm	PLC 1	
1.0 mm	PLC 1	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
0.40 mm	PLC 2	
0.75 mm	PLC 2	
1.0 mm	PLC 2	
1.5 mm	PLC 1	
3.0 mm	PLC 1	
Comparative Tracking Index (CTI)	PLC 0	UL 746
Dielectric Strength	42 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Arc Resistance	PLC 5	ASTM D495
Comparative Tracking Index (3.00 mm)	600 V	IEC 60112
Electric Strength	42 kV/mm	IEC 60243-1

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Thermal	Value	Test Method
RTI Elec		UL 746
0.40 mm	140 °C	
0.75 mm	140 °C	
1.0 mm	140 °C	
1.5 mm	140 °C	
3.0 mm	140 °C	
RTI Imp		UL 746
0.40 mm	65.0 °C	
0.75 mm	115 °C	
1.0 mm	115 °C	
1.5 mm	120 °C	
3.0 mm	125 °C	
RTI Str		UL 746
0.40 mm	65.0 °C	
0.75 mm	115 °C	
1.0 mm	115 °C	
1.5 mm	120 °C	
3.0 mm	125 °C	
Ball Pressure Test (250°C, 3.00 mm)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Outdoor Suitability	f1	UL 746C

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