Component - Plastics

File Number: E41179

MITSUBISHI ENGINEERING-PLASTICS CORP

ENVIRONMENT & QUALITY ASSURANCE DEPT
SHIODOME SUMITOMO-BLDG 25TH FL
1-9-2 HIGASHI-SHINBASHI
MINATO-KU, TOKYO 105-0021 Japan

Iupilon: S-3000(&6)(f1), S-3001(&6)(f1), S-3003(&6)(f1)

Polycarbonate (PC), pellets, powder, sheets, insulating material

(&6) - Suffix optional except V, DC and UDC.
(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
3.0 mm, ALL	HB	
6.0 mm, ALL	HB	
0.38 mm, ALL	V-2	
1.5 mm, ALL	V-2	
1.8 mm, ALL	V-2	
Flammability Classification		IEC 60695-11-10, -20
3.0 mm, ALL	HB40	
6.0 mm, ALL	HB40	
0.38 mm, ALL	V-2	
1.5 mm, ALL	V-2	
1.8 mm, ALL	V-2	
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746A
1.5 mm	PLC 3	
1.8 mm	PLC 3	
3.0 mm	PLC 3	
6.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746A
1.5 mm	PLC 0	
1.8 mm	PLC 0	
3.0 mm	PLC 0	
6.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	20 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746A
Volume Resistivity	1.0E+7 ohms·cm	ASTM D257
Volume Resistivity	1.0E+7 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Thermal	**Value**	**Test Method**
RTI Elec		UL 746B
0.38 mm	80.0 °C	
1.5 mm	125 °C	
1.8 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	

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Thermal	Value	Test Method
RTI Imp		UL 746B
0.38 mm	80.0 °C	
1.5 mm	115 °C	
1.8 mm	115 °C	
3.0 mm	115 °C	
6.0 mm	115 °C	
RTI Str		UL 746B
0.38 mm	80.0 °C	
1.5 mm	125 °C	
1.8 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	
Physical	**Value**	**Test Method**
Dimensional Change	0.0 %	ASTM D1042
Dimensional Change	0.0 %	ISO 2796
Outdoor Suitability	f1	UL 746C

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