

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: H-3000(&8)

Page 1 of 2

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

(&8) - Suffix optional except DC and UDC.



Flame Rating	Flammability	Value	Test Method
6.0 mm, ALL 0.38 mm, ALL 1.5 mm, ALL 2.4 mm, ALL 2.4 mm, ALL 3.0 mm, ALL 3.0 mm, ALL 6.0 mm, ALL 7.2 1.5 mm 8 m, ALL 1.5 mm 9 m, ALL 1.5 mm 1 m, ALL 1 m, ALL 1 m, ALL 1 m, ALL 1 m, AL 1			
6.0 mm, ALL 0.38 mm, ALL 1.5 mm, ALL 2.4 mm, ALL 2.4 mm, ALL 3.0 mm, ALL 3.0 mm, ALL 6.0 mm, ALL 7.2 1.5 mm 8 m, ALL 1.5 mm 9 m, ALL 1.5 mm 1 m, ALL 1 m, ALL 1 m, ALL 1 m, ALL 1 m, AL 1	3.0 mm, ALL	НВ	
1.5 mm, ALL V-2 2.4 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 2.4 mm, ALL V-2 2.4 mm, ALL V-2 2.4 mm, ALL V-2 2.4 mm ALL UL 746 Hot-wire Ignition (HWI) UL 746 1.5 mm PLC 3 3.0 mm PLC 3 3.0 mm PLC 0 4 mm PLC 0 1.5 mm PLC 0 2.4 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 0.0 mm PLC 0 U. 746 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) 1.0E+7 ohms-cm IEC 60093 Volume Resistivity 1.0E+7 ohms-cm IEC 60093 Arc Resistance PLC 6 <td></td> <td>НВ</td> <td></td>		НВ	
2.4 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 2.4 mm, ALL V-2 2.4 mm, ALL V-2 Electrical Value Test Method Hot-wire Ignition (HWI) UL 746 1.5 mm PLC 3 2.4 mm PLC 3 3.0 mm PLC 3 6.0 mm PLC 0 High Amp Are Ignition (HAI) UL 746 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms-cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Ele UL 746 0.38 mm 80.0 °C 1.5 mm UL 746 <t< td=""><td>0.38 mm, ALL</td><td>V-2</td><td></td></t<>	0.38 mm, ALL	V-2	
Flammability Classification	1.5 mm, ALL	V-2	
3.0 mm, ÅLL 6.0 mm, ALL 6.0 mm, ALL 6.0 mm, ALL 1.5 mm, ALL 2.4 mm, ALL 3.5 mm, ALL 3.5 mm, ALL 3.5 mm, ALL 3.5 mm 4.5 mm 4.5 mm 4.5 mm 4.5 mm 4.5 mm 4.6 mm 4.	2.4 mm, ALL	V-2	
6.0 mm, ALL	Flammability Classification		IEC 60695-11-10, -20
0.38 mm, ALL V-2 1.5 mm, ALL V-2 2.4 mm, ALL V-2 Electrical Value Test Method Hot-wire Ignition (HWI) UL 746 1.5 mm PLC 3 2.4 mm PLC 3 3.0 mm PLC 0 6.0 mm PLC 0 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms-cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 600243-1 Thermal VL 746 UL 746 RTI Elec UL 746 UL 746 0.38 mm 80.0 °C 1.5 mm 1.5 mm 125 °C 1.5 mm 2.4 mm 125 °C 1.	3.0 mm, ALL	HB40	
1.5 mm, ALL	6.0 mm, ALL	HB40	
2.4 mm, ALL	0.38 mm, ALL	V-2	
Electrical Value Test Method Hot-wire Ignition (HWI) UL 746 1.5 mm PLC 3 2.4 mm PLC 3 3.0 mm PLC 0 6.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms-cm ASTM D257 Volume Resistivity 1.0E+7 ohms-cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60043-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	1.5 mm, ALL	V-2	
Hot-wire Ignition (HWI) UL 746 1.5 mm PLC 3 2.4 mm PLC 3 3.0 mm PLC 0 6.0 mm PLC 0 High Amp Are Ignition (HAI) UL 746 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	2.4 mm, ALL	V-2	
1.5 mm PLC 3 2.4 mm PLC 3 3.0 mm PLC 3 6.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60093 Arc Resistength 20 kV/mm IEC 60093 Arc Resistength 20 kV/mm IEC 60024-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Electrical	Value	Test Method
2.4 mm PLC 3 3.0 mm PLC 3 6.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Hot-wire Ignition (HWI)		UL 746
3.0 mm	1.5 mm	PLC 3	
6.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms-cm ASTM D257 Volume Resistivity 1.0E+7 ohms-cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	2.4 mm	PLC 3	
High Amp Arc Ignition (HAI) UL 746 1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec 0.38 mm 80.0 °C 1.5 mm 80.0 °C 125 °C 2.4 mm 125 °C 2.4 mm 3.0 mm 125 °C 125 °C	3.0 mm	PLC 3	
1.5 mm PLC 0 2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	6.0 mm	PLC 0	
2.4 mm PLC 0 3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	High Amp Arc Ignition (HAI)		UL 746
3.0 mm PLC 0 6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	1.5 mm	PLC 0	
6.0 mm PLC 0 Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	2.4 mm	PLC 0	
Comparative Tracking Index (CTI) PLC 2 UL 746 Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	3.0 mm	PLC 0	
Dielectric Strength 20 kV/mm ASTM D149 High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	6.0 mm	PLC 0	
High Voltage Arc Tracking Rate (HVTR) PLC 0 UL 746 Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Comparative Tracking Index (CTI)	PLC 2	UL 746
Volume Resistivity 1.0E+7 ohms·cm ASTM D257 Volume Resistivity 1.0E+7 ohms·cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Dielectric Strength	20 kV/mm	ASTM D149
Volume Resistivity 1.0E+7 ohms cm IEC 60093 Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Arc Resistance PLC 6 ASTM D495 Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Volume Resistivity	1.0E+7 ohms⋅cm	ASTM D257
Electric Strength 20 kV/mm IEC 60243-1 Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Volume Resistivity	1.0E+7 ohms⋅cm	IEC 60093
Thermal Value Test Method RTI Elec UL 746 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Arc Resistance	PLC 6	ASTM D495
RTI Elec 0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Electric Strength	20 kV/mm	IEC 60243-1
0.38 mm 80.0 °C 1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	Thermal	Value	Test Method
1.5 mm 125 °C 2.4 mm 125 °C 3.0 mm 125 °C	RTI Elec		UL 746
2.4 mm 125 °C 3.0 mm 125 °C	0.38 mm	80.0°C	
3.0 mm 125 °C	1.5 mm	125 °C	
	2.4 mm	125 °C	
6.0 mm 125 °C	3.0 mm	125 °C	
	6.0 mm	125 °C	

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Form Number: E41179-231923

Component - Plastics

File Number: E41179



Thermal	Value	Test Method
RTI Imp		UL 746
0.38 mm	80.0°C	
1.5 mm	115 °C	
2.4 mm	115 °C	
3.0 mm	115 °C	
6.0 mm	115 °C	
RTI Str		UL 746
0.38 mm	80.0°C	
1.5 mm	125 °C	
2.4 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042
Dimensional Stability	0.0 %	ISO 2796

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