

MITSUBISHI ENGINEERING-PLASTICS CORP

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

NOVADURAN: GW-550

Polybutylene Terephthalate (PBT), pellets



Flame Rating	Flammability	Value	Test Method
0.75 mm, NC, BK 1.5 mm, NC, BK 3.0 mm, NC, BK V-0 Flammability Classification 0.30 mm, NC, BK V-0 0.30 mm, NC, BK V-0 0.30 mm, NC, BK V-0 0.75 mm, NC, BK V-0 1.5 mm, NC, BK V-0 1.5 mm, NC, BK V-0 1.5 mm, NC, BK V-0 0.75 mm Peccount Part Part Part Part Part Part Part Par			UL 94
1.5 mm, NC, BK V-0 3.0 mm, NC, BK V-0 Clambalbility Classification IEC 60695-11-10, -20 0.30 mm, NC, BK V-0 0.75 mm, NC, BK V-0 3.0 mm, NC, BK V-0 Glow Wire Flammability Index IEC 60695-2-12 0.75 mm 960 °C 1.5 mm 960 °C 3.0 mm 960 °C 1.5 mm 960 °C 3.0 mm 960 °C 1.5 mm 800 °C 3.0 mm 800 °C 3.0 mm 930 °C Electrical Value Test Method Hot-wire Ignition (HWI) UL 746A 0.30 mm PLC 0 15 mm 3.0 mm PLC 1 UL 746A 0.75 mm PLC 2 15 mm 3.0 mm PLC 1 UL 746A<	0.30 mm, NC, BK	V-0	
3.0 mm, NC, BK	0.75 mm, NC, BK	V-0	
Flammability Classification	1.5 mm, NC, BK	V-0	
0.30 mm, NC, BK 0.75 mm, NC, BK 1.5 mm, NC, BK 3.0 mm, NC, BK 3.0 mm, NC, BK 3.0 mm, NC, BK 4.0 3.0 mm, NC, BK 4.0 3.0 mm, NC, BK 4.0 3.0 mm 960 °C 1.5 mm 960 °C 1.5 mm 960 °C 6llow Wire Ignition Temperature 3.0 mm 800 °C 1.5 mm 930 °C 1.5 mm 940 °C 1.5 mm 940 °C 1.5 mm 10.75 m	3.0 mm, NC, BK	V-0	
0.75 mm, NC, BK V-0 1.5 mm, NC, BK V-0 3.0 mm, NC, BK Y-0 Glow Wire Flammability Index IEC 60695-2-12 0.75 mm 960 °C 1.5 mm 960 °C 3.0 mm 960 °C Glow Wire Ignition Temperature IEC 60695-2-13 0.75 mm 800 °C 1.5 mm 800 °C 3.0 mm 930 °C 1.5 mm 30 °C 3.0 mm UL 746A U.5 mm PLC 0 0.75 mm PLC 0 1.5 mm PLC 0 3.0 mm PLC 0 1.5 mm PLC 0 3.0 mm PLC 0 1.5 mm PLC 2 3.0 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 2 3.0 mm PLC 2 3.0 mm PLC 1 0.75 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 3 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance	Flammability Classification		IEC 60695-11-10, -20
1.5 mm, NC, BK V-0 3.0 mm, NC, BK V-0 Glow Wire Flammability Index IEC 60695-2-12 0.75 mm 960 °C 1.5 mm 960 °C 3.0 mm 960 °C Glow Wire Ignition Temperature IEC 60695-2-13 0.75 mm 800 °C 1.5 mm 800 °C 3.0 mm 800 °C 3.0 mm 800 °C 3.0 mm UL 746A U.5 mm PLC 0 0.75 mm PLC 0 1.5 mm PLC 0 1.5 mm PLC 0 1.5 mm PLC 2 1.5 mm PLC 1 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 3 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index Test Method Thermal Value<	0.30 mm, NC, BK	V-0	
3.0 mm, NC, BK	0.75 mm, NC, BK	V-0	
Section Sect	1.5 mm, NC, BK	V-0	
0.75 mm 960 °C 1.5 mm 960 °C 3.0 mm 960 °C Glow Wire Ignition Temperature	3.0 mm, NC, BK	V-0	
1.5 mm 960 °C 3.0 mm 960 °C	Glow Wire Flammability Index		IEC 60695-2-12
3.0 mm	0.75 mm	960 °C	
Glow Wire Ignition Temperature	1.5 mm	960 °C	
0.75 mm 800 °C 1.5 mm 800 °C 3.0 mm 930 °C Electrical Value Test Method Hot-wire Ignition (HWI) UL 746A 0.30 mm PLC 0 Colspan="2">Colspan="2"	3.0 mm	960 °C	
1.5 mm 800 °C 3.0 mm 930 °C Electrical Value Test Method Hot-wire Ignition (HWI) UL 746A 0.30 mm PLC 0 0.75 mm 1.5 mm PLC 0 0.75 mm 1.5 mm PLC 0 0.75 mm High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 UL 746A 0.75 mm PLC 2 1.5 mm 3.0 mm PLC 1 UL 746A Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	Glow Wire Ignition Temperature		IEC 60695-2-13
3.0 mm	0.75 mm	800°C	
Electrical Value Test Method Hot-wire Ignition (HWI) UL 746A 0.30 mm PLC 0 0.75 mm PLC 0 1.5 mm PLC 0 3.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C 1.5 mm 75.0 °C	1.5 mm	800°C	
Hot-wire Ignition (HWI) UL 746A 0.30 mm PLC 0 0.75 mm PLC 0 1.5 mm PLC 0 3.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	3.0 mm	930 °C	
0.30 mm PLC 0 0.75 mm PLC 0 1.5 mm PLC 0 3.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	Electrical	Value	Test Method
0.75 mm PLC 0 1.5 mm PLC 0 3.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	Hot-wire Ignition (HWI)		UL 746A
1.5 mm PLC 0 3.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	0.30 mm	PLC 0	
3.0 mm PLC 0 High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 1 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	0.75 mm	PLC 0	
High Amp Arc Ignition (HAI) UL 746A 0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 1 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	1.5 mm	PLC 0	
0.30 mm PLC 3 0.75 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	3.0 mm	PLC 0	
0.75 mm PLC 2 1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	High Amp Arc Ignition (HAI)		UL 746A
1.5 mm PLC 2 3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	0.30 mm	PLC 3	
3.0 mm PLC 1 Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	0.75 mm	PLC 2	
Comparative Tracking Index (CTI) PLC 1 UL 746A High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	1.5 mm	PLC 2	
High Voltage Arc Tracking Rate (HVTR) PLC 3 UL 746A Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	3.0 mm	PLC 1	
Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	Comparative Tracking Index (CTI)	PLC 1	UL 746A
Arc Resistance PLC 5 ASTM D495 Comparative Tracking Index 375 V IEC 60112 Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	High Voltage Arc Tracking Rate (HVTR)		UL 746A
Thermal Value Test Method RTI Elec UL 746B 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C		PLC 5	ASTM D495
RTI Elec 0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	Comparative Tracking Index	375 V	IEC 60112
0.30 mm 75.0 °C 0.75 mm 75.0 °C 1.5 mm 75.0 °C	Thermal	Value	
0.75 mm 75.0 °C 1.5 mm 75.0 °C	RTI Elec		UL 746B
1.5 mm 75.0 °C	0.30 mm		
	0.75 mm		
3.0 mm 75.0 °C	1.5 mm	75.0 °C	
	3.0 mm	75.0 °C	

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Component - Plastics

File Number: E53664



Thermal	Value	Test Method
RTI Imp		UL 746B
0.30 mm	75.0 °C	
0.75 mm	75.0 °C	
1.5 mm	75.0 °C	
3.0 mm	75.0 °C	
RTI Str		UL 746B
0.30 mm	75.0 °C	
0.75 mm	75.0 °C	
1.5 mm	75.0 °C	
3.0 mm	75.0 °C	

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