

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: 5010GN6-15 M8X(ccc)(r13), 5010GN6-15M8X(ccc)(r13)

Polybutylene Terephthalate (PBT), pellets, glass reinforced

(ccc) - Any combination of any letters excluding a letter "X" and/or any numerals denoting a customer code may or may not follow. (r13) - Virgin and regrind up to 50% weight inclusive have the same or basic characteristics for thicknesses 0.30mm or greater, excluding the 5VA flame rating.

Flammability	Value	Test Method
Flame Rating		UL 94
0.30 mm, ALL	V-0	
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0, 5VA	
3.0 mm, ALL	V-0, 5VA	
Flammability Classification		IEC 60695-11-10, -20
0.30 mm, ALL	V-0	
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0, 5VA	
3.0 mm, ALL	V-0, 5VA	
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	725 °C	
1.5 mm	725 °C	
3.0 mm	750 °C	
Electrical	750 °C Value	Test Method
Electrical Hot-wire Ignition (HWI)	Value	Test Method UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm	Value PLC 4	
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm	Value PLC 4 PLC 4	
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm	Value PLC 4 PLC 4 PLC 3	
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm	Value PLC 4 PLC 4	UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI)	Value PLC 4 PLC 4 PLC 3 PLC 2	
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm	Value PLC 4 PLC 4 PLC 3 PLC 2	UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm	Value PLC 4 PLC 3 PLC 2 PLC 3 PLC 0	UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm	PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0	UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm	PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0 PLC 0	UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm Comparative Tracking Index (CTI)	PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0	UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm Comparative Tracking Index (CTI) Dielectric Strength	PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0 PLC 0 PLC 0 PLC 2 33 kV/mm	UL 746A UL 746A UL 746A ASTM D149
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm Comparative Tracking Index (CTI) Dielectric Strength High Voltage Arc Tracking Rate (HVTR)	Value PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0 PLC 0 PLC 0 PLC 2 33 kV/mm PLC 2	UL 746A UL 746A UL 746A ASTM D149 UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm Comparative Tracking Index (CTI) Dielectric Strength	PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0 PLC 0 PLC 0 PLC 2 33 kV/mm	UL 746A UL 746A UL 746A ASTM D149
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm Comparative Tracking Index (CTI) Dielectric Strength High Voltage Arc Tracking Rate (HVTR)	PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0 PLC 0 PLC 0 PLC 2 33 kV/mm PLC 2 1.0E+14 ohms·cm	UL 746A UL 746A UL 746A ASTM D149 UL 746A
Electrical Hot-wire Ignition (HWI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm High Amp Arc Ignition (HAI) 0.30 mm 0.75 mm 1.5 mm 3.0 mm Comparative Tracking Index (CTI) Dielectric Strength High Voltage Arc Tracking Rate (HVTR) Volume Resistivity	PLC 4 PLC 4 PLC 3 PLC 2 PLC 3 PLC 0 PLC 0 PLC 0 PLC 0 PLC 2 33 kV/mm PLC 2 1.0E+14 ohms·cm	UL 746A UL 746A UL 746A ASTM D149 UL 746A ASTM D257

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Page 1 of 2

Form Number: E53664-100051252

Report Date: 3/17/2009
Last Revised: 3/30/2017 7:03:02 AM

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Component - Plastics

File Number: E53664



Thermal	Value	Test Method
RTI Elec		UL 746B
0.30 mm	130 °C	
0.75 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746B
0.30 mm	130 °C	
0.75 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Str		UL 746B
0.30 mm	140 °C	
0.75 mm	140 °C	
1.5 mm	140 °C	
3.0 mm	140 °C	
Physical	Value	Test Method
Dimensional Change	0.0 %	ASTM D1042
Dimensional Change	0.0 %	ISO 2796

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Page 2 of 2

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