Component - Plastics

File Number: E53664

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	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746A
0.30 mm	PLC 4	
0.75 mm	PLC 4	
1.5 mm	PLC 3	
3.0 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746A
0.30 mm	PLC 3	
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	33 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 2	UL 746A
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257
Volume Resistivity	1.0E+14 ohms·cm	IEC 60093
Arc Resistance	PLC 6	ASTM D495

Form Number: E53664-100051252

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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.

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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