



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: 5010GN6-30(r11)

Polybutylene Terephthalate (PBT), pellets, glass reinforced

(r11) - Virgin and regrind up to 50% by weight incl. have the same basic material characteristics for thicknesses 0.38 mm and greater.

Flammability	Value	Test Method
Flame Rating		UL 94
0.38 mm, ALL	V-2	
0.76 mm, ALL	V-0	
0.9 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
3.2 mm, ALL	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.76 mm, ALL	V-0	
0.9 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
3.2 mm, ALL	V-0	
0.38 mm, ALL	V-2	
Glow Wire Flammability Index		IEC 60695-2-12
0.9 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
3.2 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.9 mm	750 °C	
1.5 mm	700 °C	
3.0 mm	700 °C	
3.2 mm	825 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.76 mm	PLC 3	
0.9 mm	PLC 3	
1.5 mm	PLC 2	
3.0 mm	PLC 2	
3.2 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746A
0.76 mm	PLC 0	
0.9 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
3.2 mm	PLC 0	

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Electrical	Value	Test Method
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	33 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 1	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
Thermal	Value	Test Method
RTI Elec		UL 746B
0.38 mm	130 °C	
0.76 mm	130 °C	
0.9 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
3.2 mm	130 °C	
RTI Imp		UL 746B
0.38 mm	130 °C	
0.76 mm	130 °C	
0.9 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
3.2 mm	130 °C	
RTI Str		UL 746B
0.38 mm	130 °C	
0.76 mm	140 °C	
0.9 mm	140 °C	
1.5 mm	140 °C	
3.0 mm	140 °C	
3.2 mm	140 °C	
Physical	Value	Test Method
Dimensional Change	0.0 %	ASTM D1042
Dimensional Change	0.0 %	ISO 2796

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