



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: 5010GN1-30NX(ccc)(r2)(f1)

Polybutylene Terephthalate (PBT)

(ccc) - Any combination of any letters excluding a letter "X" and/or any numerals denoting a customer code may or may not follow.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(r2) - Virgin and regrind up to 50% by weight incl. have the same basic material characteristics

Flammability	Value	Test Method
Flame Rating		UL 94
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	PLC 3	
1.5 mm	PLC 2	
3.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 3	UL 746A
Dielectric Strength	21 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 4	UL 746A
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257
Volume Resistivity	1.0E+14 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746B
0.75 mm	140 °C	
1.5 mm	140 °C	
3.0 mm	140 °C	
RTI Imp		UL 746B
0.75 mm	140 °C	
1.5 mm	140 °C	
3.0 mm	140 °C	

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Thermal	Value	Test Method
RTI Str		UL 746B
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
Outdoor Suitability	f1	UL 746C

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