



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: 5010CR2(r2)

Polybutylene Terephthalate (PBT), pellets

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

Flammability	Value	Test Method
Flame Rating		UL 94
0.8 mm, ALL	HB	
1.5 mm, ALL	HB	
3.0 mm, ALL	HB	
6.0 mm, ALL	HB	
Flammability Classification		IEC 60695-11-10, -20
3.0 mm, ALL	HB40	
6.0 mm, ALL	HB40	
0.8 mm, ALL	HB75	
1.5 mm, ALL	HB75	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.8 mm	PLC 4	
1.5 mm	PLC 4	
3.0 mm	PLC 3	
6.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746A
0.8 mm	PLC 1	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
6.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746A
Dielectric Strength	26 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746A
Volume Resistivity	1.0E+16 ohms-cm	ASTM D257
Volume Resistivity	1.0E+16 ohms-cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746B
0.8 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
6.0 mm	130 °C	
RTI Imp		UL 746B
0.8 mm	75.0 °C	
1.5 mm	120 °C	
3.0 mm	120 °C	
6.0 mm	120 °C	

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Thermal	Value	Test Method
RTI Str		UL 746B
0.8 mm	140 °C	
1.5 mm	140 °C	
3.0 mm	140 °C	
6.0 mm	140 °C	
Physical	Value	Test Method
Dimensional Change	0.60 %	ASTM D1042
Dimensional Change	0.60 %	ISO 2796

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