



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: 5010GN1-30(r2), 5010GN1-30AM(r2), 5010GN1-30AM2(r2)

Polybutylene Terephthalate (PBT), pellets, glass reinforced, mineral reinforced

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

Flammability	Value	Test Method
Flame Rating		UL 94
0.71 mm, ALL	V-0	
0.75 mm, ALL	V-0	
1.6 mm, ALL	V-0	
1.7 mm, ALL	V-0	
3.0 mm, ALL	V-0	
3.2 mm, ALL	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.71 mm, ALL	V-0	
0.75 mm, ALL	V-0	
1.6 mm, ALL	V-0	
1.7 mm, ALL	V-0	
3.0 mm, ALL	V-0	
3.2 mm, ALL	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.75 mm	960 °C	
1.7 mm	960 °C	
3.2 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.75 mm	750 °C	
1.7 mm	700 °C	
3.2 mm	800 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.71 mm	PLC 3	
0.75 mm	PLC 3	
1.6 mm	PLC 2	
1.7 mm	PLC 2	
3.0 mm	PLC 1	
3.2 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746A
0.71 mm	PLC 0	
0.75 mm	PLC 0	
1.6 mm	PLC 0	
1.7 mm	PLC 0	
3.0 mm	PLC 0	
3.2 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 3	UL 746A

Component - Plastics

File Number: E53664



Electrical	Value	Test Method
Dielectric Strength	32 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 6	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746B
0.71 mm	130 °C	
0.75 mm	130 °C	
1.6 mm	130 °C	
1.7 mm	130 °C	
3.0 mm	130 °C	
3.2 mm	130 °C	
RTI Imp		UL 746B
0.71 mm	120 °C	
0.75 mm	120 °C	
1.6 mm	120 °C	
1.7 mm	120 °C	
3.0 mm	130 °C	
3.2 mm	130 °C	
RTI Str		UL 746B
0.71 mm	130 °C	
0.75 mm	130 °C	
1.6 mm	140 °C	
1.7 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

Notice of Disclaimer

By accessing this Yellow Card data information sheet and the database from which this information was generated (the "Yellow Card"), the user acknowledges and accepts the terms and conditions upon which this Yellow Card is made available. This Yellow Card, the database from which it was generated, and all related materials, support, and services, are made available by UL for use only by permission and "as is", without any representation or warranty of any kind, express or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose or that the products identified in this Yellow Card will satisfy the user's requirements. UL cannot and does not warrant that the data contained in this Yellow Card is current, accurate, or complete. The user must independently confirm the conformance of any product to the applicable standards or requirements with the manufacturer of that product. Permission to access this Yellow Card may be withdrawn at any time by UL in its sole discretion. The identification of products and companies on this Yellow Card does not in any way imply endorsement of those products or companies by UL. UL does not assume and expressly disclaims, liability to any person for any loss or damage (including lost profits, lost savings, or any indirect, special, incidental, consequential or punitive damages whether or not UL has been advised of the possibility of such damages) arising out of, or in connection with, the use of this Yellow Card regardless of the cause or causes of such loss or damage.