Component - Plastics

File Number: E56070

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WONDERLOY: PC-540(Y)(a)

Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS), pellets

(a) - Ball pressure temperature is in accordance with IEC 60695-10-2 Method B.
(Y) - Optional suffix; may be suffixed with one or two alphabet but except H, unconcerned with formula or constituent changed.

Flammability	Value	Test Method
Flame Rating		
0.75 mm, ALL	HB	UL 94
0.8 mm, ALL	V-2	UL 94 IEC 60695-11-10, -20
1.5 mm, ALL	V-0	UL 94 IEC 60695-11-10, -20
2.0 mm, ALL	V-0, 5VB	UL 94 IEC 60695-11-10, -20
2.5 mm, ALL	V-0, 5VA	UL 94 IEC 60695-11-10, -20
3.0 mm, ALL	V-0, 5VA	UL 94 IEC 60695-11-10, -20
0.75 mm, ALL	HB75	IEC 60695-11-10, -20
Glow Wire Flammability Index		IEC 60695-2-12
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.5 mm	800 °C	
3.0 mm	750 °C	
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	PLC 3	
0.8 mm	PLC 3	
1.5 mm	PLC 3	
2.0 mm	PLC 3	
2.5 mm	PLC 3	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	PLC 3	
0.8 mm	PLC 3	
1.5 mm	PLC 3	
2.0 mm	PLC 3	
2.5 mm	PLC 3	
3.0 mm	PLC 2	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	32 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746A
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257 IEC 60093

Form Number: E56070-100269744

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Electrical	Value	Test Method
Arc Resistance	PLC 5	ASTM D495
Thermal	**Value**	**Test Method**
RTI Elec		UL 746B
0.75 mm	60.0 °C	
0.8 mm	60.0 °C	
1.5 mm	85.0 °C	
2.0 mm	85.0 °C	
2.5 mm	85.0 °C	
3.0 mm	85.0 °C	
RTI Imp		UL 746B
0.75 mm	60.0 °C	
0.8 mm	60.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
RTI Str		UL 746B
0.75 mm	60.0 °C	
0.8 mm	60.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
Ball Pressure Test (90°C)	Pass	IEC 60695-10-2
Physical	**Value**	**Test Method**
Dimensional Change	0.0 %	ASTM D1042 ISO 2796

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