



# Component - Plastics

File Number: E56070

CHI MEI CORPORATION  
59-1 SAN CHIA, JEN TE, TAINAN 717 TW



## 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 746
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 746
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 746
Dielectric Strength	32 kV/mm	ASTM D149 IEC 60243-1
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746
Volume Resistivity	1.0E+14 ohms-cm	ASTM D257 IEC 60093

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Electrical	Value	Test Method
Arc Resistance	PLC 5	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746
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 746
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 746
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, 3.00 mm)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042 ISO 2796