



Component - Plastics

File Number: E56070

CHI MEI CORPORATION
59-1 SAN CHIA



Wonderlite: PC-6600(Y)(f1)(a), EC-8100(Y)(f1)(a)

Polycarbonate (PC), pellets

(a) - Ball pressure temperature is in accordance with IEC 60695-10-2 Method B.

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

(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		UL 94
1.5 mm, ALL	V-0	IEC 60695-11-10, -20
2.0 mm, ALL	V-0	
2.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
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	875 °C	
3.0 mm	875 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
1.5 mm	PLC 3	
2.0 mm	PLC 3	
2.5 mm	PLC 3	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
1.5 mm	PLC 1	
2.0 mm	PLC 1	
2.5 mm	PLC 1	
3.0 mm	PLC 1	
Comparative Tracking Index (CTI)	PLC 2	UL 746
Dielectric Strength	31 kV/mm	ASTM D149 IEC 60243-1
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257 IEC 60093
Thermal	Value	Test Method
RTI Elec		UL 746
1.5 mm	130 °C	
2.0 mm	130 °C	
2.5 mm	130 °C	
3.0 mm	130 °C	

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Thermal	Value	Test Method
RTI Imp		UL 746
1.5 mm	120 °C	
2.0 mm	120 °C	
2.5 mm	120 °C	
3.0 mm	120 °C	
RTI Str		UL 746
1.5 mm	130 °C	
2.0 mm	130 °C	
2.5 mm	130 °C	
3.0 mm	130 °C	
Ball Pressure Test (135°C, 3.00 mm)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042 ISO 2796
Outdoor Suitability	f1	UL 746C



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Flammability	Value	Test Method
Flame Rating		UL 94
1.0 mm, ALL	V-0	IEC 60695-11-10, -20
1.5 mm, ALL	V-0	
2.0 mm, ALL	V-0, 5VB	
2.5 mm, ALL	V-0, 5VA	
3.0 mm, ALL	V-0, 5VA	
Glow Wire Flammability Index		IEC 60695-2-12
1.0 mm	930 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.0 mm	850 °C	
1.5 mm	875 °C	
3.0 mm	875 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
1.0 mm	PLC 3	
1.5 mm	PLC 3	
2.0 mm	PLC 3	
2.5 mm	PLC 3	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
1.0 mm	PLC 1	
1.5 mm	PLC 1	
2.0 mm	PLC 1	
2.5 mm	PLC 1	
3.0 mm	PLC 1	
Comparative Tracking Index (CTI)	PLC 2	UL 746
Dielectric Strength	31 kV/mm	ASTM D149 IEC 60243-1
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257 IEC 60093
Thermal	Value	Test Method
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1.5 mm	120 °C	
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2.5 mm	120 °C	
3.0 mm	120 °C	
RTI Str		UL 746
1.0 mm	130 °C	
1.5 mm	130 °C	
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2.5 mm	130 °C	
3.0 mm	130 °C	
Ball Pressure Test (135°C, 3.00 mm)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042 ISO 2796