UL Product iQ®

Model PC-110U(f1)(a)

File Number: E56070

Yellow Card™

ALSO CERTIFIED TO IEC REQUIREMENTS

COMPANY

CHI MEI CORPORATION

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Tainan City, 717010 Taiwan

MODEL INFO

PC-110U(f1)(a)
Polycarbonate (PC) "WONDERLITE", furnished as pellets
(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
(a) – Ball pressure temperature is in accordance with IEC 60695-10-2 Method B.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.75 mm, Color: ALL	V-2	
1.5 to 1.7 mm, Color: ALL	V-2	
3.0 mm, Color: ALL	HB	

ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
0.75 mm, Color: ALL	V-2	
1.5 to 1.7 mm, Color: ALL	V-2	
3.0 mm, Color: ALL	HB40	
Glow Wire Ignition Temperature (GWIT)		IEC 60695-2-13
1.5 to 1.7 mm	850 °C	
3.0 mm	875 °C	
Glow Wire Flammability Index (GWFI)		IEC 60695-2-12
1.5 to 1.7 mm	850 °C	

3.0 mm	960 °C	

ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	PLC 4	
1.5 to 1.7 mm	PLC 4	
3.0 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	PLC 4	
1.5 to 1.7 mm	PLC 4	
3.0 mm	PLC 3	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	30 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 2	
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance	PLC 6	

THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength		UL 746B
0.75 mm	125 °C	
1.5 to 1.7 mm	125 °C	
3.0 mm	125 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
0.75 mm	105 °C	
1.5 to 1.7 mm	105 °C	
3.0 mm	105 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
0.75 mm	125 °C	
1.5 to 1.7 mm	125 °C	
3.0 mm	125 °C	

Ball Pressure Temperature	135 °C	

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Dimensional Change	0.0 %	ASTM D1042/ISO 2796
UV Exposure & Water Immersion	f1	UL 746C

Report Date: 2001-09-25