UL Product iQ®



Model PC-681U(f1)(a)

File Number: E56070

Yellow Card[™]



COMPANY

CHI MEI CORPORATION

No 398 Sec 1 Zhongzheng Rd Rende District Tainan City, 717010 Taiwan

MODEL INFO

PC-681U(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.

LAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	5VA	
	V-0	
SO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	V-0	
Flammability	5VA	IEC 60695-11-20
(3.0 mm, Color: ALL)		
Glow Wire Ignition Temperature (GWIT)		IEC 60695-2-13
1.5 mm	825 °C	
3.0 mm	850 °C	
Glow Wire Flammability Index (GWFI)		IEC 60695-2-12

1.5 mm	960 °C
3.0 mm	960 °C

ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
1.5 mm	PLC 3	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746A
1.5 mm	PLC 1	
3.0 mm	PLC 1	
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
1.5 mm	130 °C	
3.0 mm	130 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
1.5 mm	115 °C	
3.0 mm	120 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
1.5 mm	125 °C	
3.0 mm	130 °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	

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