



Grade Designation PC-860(f1)

File Number: E56070

Yellow Card™


ALSO CERTIFIED TO
IEC REQUIREMENTS

Component – Plastics

[Guide Information](#)[View Certificate of Compliance](#)

E56070

CHIMEI CORPORATION

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PC-860(f1)

Polycarbonate/Acrylonitrile Styrene Acrylate (PC/ASA) "WONDERLOY", furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI (PLC)	HAI (PLC)	GWIT (°C)	GWFI (°C)	RTI Elec (°C)	RTI Imp (°C)	RTI Str (°C)
ALL	1.5	HB	4	2	--	--	50	50	50
	3.0	HB	3	2	--	--	50	50	50

Comparative Tracking Index (CTI) (PLC): 3

Inclined Plane Tracking (IPT) (kV): --

Volume Resistivity (VR) (10^x ohm cm): 12

IEC Comparative Tracking Index (V): --

High-Voltage Arc Tracking Rate (HVTR) 4 (PLC):

Ball Pressure Temperature (BPT) (°C): --

IEC CTI Material Group: --

Dielectric Strength (DS) (kV/mm): 30

High Volt, Low Current Arc Resis (D495): 5

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

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
1.5 mm, Color: ALL	HB	
3.0 mm, Color: ALL	HB	

ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.5 mm, Color: ALL	HB75	
3.0 mm, Color: ALL	HB40	

ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
1.5 mm	PLC 4	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746A
1.5 mm	PLC 2	
3.0 mm	PLC 2	
Comparative Tracking Index (CTI)	PLC 3	UL 746A
Dielectric Strength	30 kV/mm	ASTM D149

High Voltage Arc Tracking Rate (HVTR)	PLC 4	
Volume Resistivity	1.0E+12 ohms·cm	ASTM D257/IEC 60093
Surface Resistivity	1.0E+12 ohms/square	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance	PLC 5	

Thermal Properties	Value	Test Method
Relative Thermal Index - Electrical Strength		UL 746B
1.5 mm	50 °C	
3.0 mm	50 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
1.5 mm	50 °C	
3.0 mm	50 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
1.5 mm	50 °C	
3.0 mm	50 °C	

Physical Properties	Value	Test Method
UV Exposure & Water Immersion	f1	UL 746C

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