Model PC75(WA)(f1), PCQP7020UV(f1), PCQP70(WJ)R(f1), PCQP70(WJ)RUV(f1), PCQP70(WJ)UV(f1)

File Number: E205256

Yellow Card™

c UL us
ALSO CERTIFIED TO IEC/ISO REQUIREMENTS

COMPANY

STAR PLASTICS INC
326 JACK BURLINGAME DR
MILLWOOD, WV 25262-8577 United States

MODEL INFO

PC75(WA)(f1), PCQP7020UV(f1), PCQP70(WJ)R(f1), PCQP70(WJ)RUV(f1), PCQP70(WJ)UV(f1)
Polycarbonate (PC) "ORION", furnished as pellets
(WJ) – Denotes a 2 digit number from 20-29 representing a customer code.
(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
NOTE – Material designations may be followed by numbers and/or letters representing color and/or granulation and/or lubrication.
(WA) – Denotes a 2 digit number from 00 to 99 representing a customer code.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
1.5 mm, Color: BK, GY, BG, GN	V-0	
2.5 mm, Color: BK, GY, BG, GN	5VA V-0	
3.0 mm, Color: BK, GY, BG, GN	5VA V-0	
3.8 mm, Color: BK, GY, BG, GN	V-0	

ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.5 mm, Color: BK, GY, BG, GN	V-0	
2.5 mm, Color: BK, GY, BG, GN	V-0	
3.0 mm, Color: BK, GY, BG, GN	V-0	

3.8 mm, Color: BK, GY, BG, GN	V-0		
Flammability			IEC 60695-11-20
2.5 mm, Color: BK, GY, BG, GN	5VA		
3.0 mm, Color: BK, GY, BG, GN	5VA		
Glow Wire Ignition Temperature (GWIT) (3.8 mm)	775	°C	IEC 60695-2-13
Glow Wire Flammability Index (GWFI) (3.8 mm)	960	°C	IEC 60695-2-12

ELECTRICAL PROPERTIES	VALUE		TEST METHOD
Hot-wire Ignition (HWI)			UL 746A
1.5 mm	PLC 3		
2.5 mm	PLC 3		
3.0 mm	PLC 2		
High Amp Arc Ignition (HAI)			UL 746A
1.5 mm	PLC 0		
2.5 mm	PLC 1		
3.0 mm	PLC 1		
Comparative Tracking Index (CTI)	PLC 2		UL 746A
Dielectric Strength	24	kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 3		
Volume Resistivity	1.0E+15	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	125	°C	
2.5 mm	125	°C	
3.0 mm	125	°C	

3.8 mm	125 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
1.5 mm	115 °C	
2.5 mm	115 °C	
3.0 mm	115 °C	
3.8 mm	115 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
1.5 mm	125 °C	
2.5 mm	125 °C	
3.0 mm	125 °C	
3.8 mm	125 °C	
Heat Deflection (1.80 MPa) (4 mm)	137 °C	ISO 75-2/A

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

Report Date: 2017-05-08
Revision Date: 2022-03-28