

# Model PC76(WA)(f1), PCQP700(W)RUV(f1)

File Number: E205256



**COMPANY**

**STAR PLASTICS INC**

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

**MODEL INFO**

PC76(WA)(f1), PCQP700(W)RUV(f1)

Polycarbonate (PC) "ORION", furnished as pellets

(W) – Denotes a 2 digit number from 01-09 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
<b>Flammability</b>		ANSI/UL 94
0.75 mm, Color: ALL, GN	V-2	
1.5 mm, Color: ALL, GN	V-2	
3.0 mm, Color: ALL, GN	V-2	
3.5 mm, Color: ALL, GN	V-2	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
<b>Flammability</b>		IEC 60695-11-10
0.75 mm, Color: ALL, GN	V-2	
1.5 mm, Color: ALL, GN	V-2	
3.0 mm, Color: ALL, GN	V-2	
3.5 mm, Color: ALL, GN	V-2	

<b>Glow Wire Ignition Temperature (GWIT)</b> (3.5 mm)	775 °C	IEC 60695-2-13
<b>Glow Wire Flammability Index (GWFI)</b> (3.5 mm)	960 °C	IEC 60695-2-12
<b>ELECTRICAL PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<b>Hot-wire Ignition (HWI)</b>		UL 746A
0.75 mm	PLC 4	
1.5 mm	PLC 3	
3.0 mm	PLC 2	
<b>High Amp Arc Ignition (HAI)</b>		UL 746A
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 1	
<b>Comparative Tracking Index (CTI)</b>	PLC 2	UL 746A
<b>Dielectric Strength</b>	24 kV/mm	ASTM D149
<b>High Voltage Arc Tracking Rate (HVTR)</b>	PLC 3	
<b>Volume Resistivity</b>	1.0E+15 ohms-cm	ASTM D257/IEC 60093
<b>High Voltage, Low Current Arc Resistance</b>	PLC 6	
<b>THERMAL PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<b>Relative Thermal Index - Electrical Strength</b>		UL 746B
0.75 mm	80 °C	
1.5 mm	125 °C	
3.0 mm	125 °C	
3.5 mm	125 °C	
<b>Relative Thermal Index - Mechanical Impact</b>		UL 746B
0.75 mm	80 °C	
1.5 mm	115 °C	

3.0 mm	115 °C	
3.5 mm	115 °C	
<b>Relative Thermal Index - Mechanical Strength</b>		UL 746B
0.75 mm	80 °C	
1.5 mm	125 °C	
3.0 mm	125 °C	
3.5 mm	125 °C	
<b>Heat Deflection (1.80 MPa)</b> (4 mm)	137 °C	ISO 75-2/A
<b>PHYSICAL PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<b>Dimensional Change</b>	0.0 %	ASTM D1042/ISO 2796
<b>UV Exposure &amp; Water Immersion</b>	f1	UL 746C

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