

Component – Plastics

E205256

STAR PLASTICS, INC

West Virginia, United States



MATERIAL DESIGNATION: PC7100 (F1)

Product Description: Polycarbonate (PC), furnished as pellets, All Colors but White

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI IMP	RTI Str
(G)	1.5	V-0	2	0	125	115	125
	2.4	V-0, 5VA	2	0	125	115	125
	3.0	V-0, 5VA	2	0	125	115	125
	3.8	V-0, 5VA	2	0	125	115	125
	6.0	V-0, 5VA	2	0	125	115	125

Comparative Tracking Index (CTI): 3

Dielectric Strength (kV/mm): 19

Dimensional Stability (%): -

High-Voltage Arc Tracking Rate (HVTR): 0

Inclined Plane Tracking (IPT): --

Volume Resistivity (10⁹ohm-cm): --

High Volt, Low Current Arc Resis (D495): 7

(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 appliance, where the acceptability of the combination is determined by UL.

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IEC AND ISO TEST METHODS

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10, IEC 60695-11-20	Class (color)	1.5	V-0 (G)
			2.4	V-0, 5VA (G)
			3.0	V-0, 5VA (G)
			3.8	V-0, 5VA (G)
			6.0	V-0, 5VA (G)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	3.8	960
			6.0	960
Glow-Wire Ignition (GWI)	IEC 60695-2-13	C	3.8	800
			6.0	800
IEC Comparative Tracking Index	IEC 60112	Volts (max)	--	--
IEC Ball Pressure	IEC 60695-10-2	C	--	--
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	4.0	141
ISO Tensile Strength	ISO 527-2	MPa	--	--
ISO Flexural Strength	ISO 178	MPa	--	--
ISO Tensile Impact	ISO 8256	kJ/m ²	--	--
ISO Izod Impact	ISO 180	kJ/m ²	--	--
ISO Charpy Impact	ISO 179-2	kJ/m ²	--	--

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Navigating Custom Compounds

