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View additional material information including performance and processing data

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics

Guide Information

Covestro Deutschland AG [PC Resins]

Chempark, Gebaeude B207, Leverkusen 51368 DE

2800 + (z)(f1), 2807 + (z)(f1), 2808 + (z)(f1), 2856 + (z)(f1), 2858 + (z)(f1)

Polycarbonate (PC) "Makrolon", furnished as pellets

	Min. Thk	<u>Flame</u>			<u>RTI</u>	<u>RTI</u>	<u>RTI</u>
<u>Color</u>	<u>(mm)</u>	<u>Class</u>	<u>HWI</u>	<u>HAI</u>	<u>Elec</u>	<u>lmp</u>	<u>Str</u>
ALL	0.75	V-2	-	-	125	115	125
	1.5-2.4	V-2	3	0	125	115	125
	2.5	HB	3	0	125	115	125
	3.0	HB	2	0	125	115	125
	6.0	HB	0	0	125	115	125

Comparative Tracking Index (CTI): 2

Dielectric Strength (kV/mm): 29

High-Voltage Arc Tracking Rate (HVTR): 0

Dimensional Stability (%): 0.0

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10^x ohm-cm): -

Surface Resistivity (10^x ohms/square): -

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.
- (z) Material designation and color code may be followed by up to three letters and/or three numbers (does not include grades which are separately recognized with above material designation and suffix)
 - + Material designations may be followed by a six digit numerical code denoting color.

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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IEC and ISO Test Methods				
Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	V-2 (ALL)
			1.5-2.4	V-2 (ALL)
			2.5	HB, HB75 (ALL)
			3.0	HB, HB40 (ALL)
			6.0	HB, HB40 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	-	-
EC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
EC Ball Pressure	IEC 60695-10-2	°C	-	-
SO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
SO Tensile Strength	ISO 527-2	MPa	-	-
SO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
SO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-1	kJ/m ²	-	-