Component - Plastics

File Number: E41613

COVESTRO DEUTSCHLAND AG [PC RESINS]

Chempark
Gebaeude B207
Leverkusen, 51368 Germany

Makrolon: 3100 + (z)(f1), ET3113 + (z)(f1), 3105 + (z)(f2), 3107 + (z)(f1), 3108 + (z), ET3117 + (z)(f1)

Polycarbonate (PC), pellets

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.
(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.

Flammability	Value	Test Method
Flame Rating		UL 94
0.06 in, ALL	HB	
0.12 in, ALL	HB	
0.24 in, ALL	HB	
0.03 to 0.06 in, ALL	V-2	
Flammability Classification		IEC 60695-11-10, -20
0.12 in, ALL	HB40	
0.24 in, ALL	HB40	
0.06 in, ALL	HB75	
0.03 to 0.06 in, ALL	V-2	
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746
0.06 in	PLC 3	
0.12 in	PLC 2	
0.24 in	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
0.06 in	PLC 0	
0.12 in	PLC 0	
0.24 in	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746
Dielectric Strength	580 V/mil	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Volume Resistivity	1.0E+16 ohms·cm	ASTM D257
Volume Resistivity	1.0E+16 ohms·cm	IEC 60093
Arc Resistance	PLC 6	ASTM D495
Electric Strength	580 V/mil	IEC 60243-1
Thermal	**Value**	**Test Method**
RTI Elec		UL 746
0.06 in	257 °F	
0.12 in	257 °F	
0.24 in	257 °F	

Form Number: E41613-233143

UL and the UL logo are trademarks of UL LLC Copyright © 2020 All Rights Reserved. | www.ul.com

Report Date: 1969-08-22
Last Revised: 2020-03-03

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.

Thermal	Value	Test Method
RTI Imp		UL 746
0.06 in	239 °F	
0.12 in	239 °F	
0.24 in	239 °F	
RTI Str		UL 746
0.06 in	257 °F	
0.12 in	257 °F	
0.24 in	257 °F	
Physical	**Value**	**Test Method**
Dimensional Stability	0.0 %	ASTM D1042
Dimensional Stability	0.0 %	ISO 2796
Outdoor Suitability	f2, f1	UL 746C

Notice of Disclaimer
By accessing this Yellow Card data information sheet and the database from which this information was generated (the “Yellow Card”), the user acknowledges and accepts the terms and conditions upon which this Yellow Card is made available. This Yellow Card, the database from which it was generated, and all related materials, support, and services, are made available by UL for use only by permission and "as is", without any representation or warranty of any kind, express or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose or that the products identified in this Yellow Card will satisfy the user’s requirements. UL cannot and does not warrant that the data contained in this Yellow Card is current, accurate, or complete. The user must independently confirm the conformance of any product to the applicable standards or requirements with the manufacturer of that product. Permission to access this Yellow Card may be withdrawn at any time by UL in its sole discretion. The identification of products and companies on this Yellow Card does not in any way imply endorsement of those products or companies by UL. UL does not assume and expressly disclaims, liability to any person for any loss or damage (including lost profits, lost savings, or any indirect, special, incidental, consequential or punitive damages whether or not UL has been advised of the possibility of such damages) arising out of, or in connection with, the use of this Yellow Card regardless of the cause or causes of such loss or damage.

UL and the UL logo are trademarks of UL LLC Copyright © 2020 All Rights Reserved. | www.ul.com
Report Date: 1969-08-22
Last Revised: 2020-03-03

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.