



Component - Plastics

File Number: E41613

Covestro Deutschland AG [PC Resins]

Chempark, Gebaeude B207, Leverkusen 51368 DE



Makrolon: 3100 + (z)(f1), 3103 + (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		
1.50 mm, ALL	HB	UL 94
3.00 mm, ALL	HB	UL 94
6.00 mm, ALL	HB	UL 94
0.750 to 1.40 mm, ALL	V-2	UL 94 IEC 60695-11-10, -20
3.00 mm, ALL	HB40	IEC 60695-11-10, -20
6.00 mm, ALL	HB40	IEC 60695-11-10, -20
1.50 mm, ALL	HB75	IEC 60695-11-10, -20
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
1.50 mm	PLC 3	
3.00 mm	PLC 2	
6.00 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
1.50 mm	PLC 0	
3.00 mm	PLC 0	
6.00 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746
Dielectric Strength	23 kV/mm	ASTM D149 IEC 60243-1
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Volume Resistivity	1.0E+16 ohms-cm	ASTM D257 IEC 60093
Arc Resistance	PLC 6	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746
1.50 mm	125 °C	
3.00 mm	125 °C	
6.00 mm	125 °C	
RTI Imp		UL 746
1.50 mm	115 °C	
3.00 mm	115 °C	
6.00 mm	115 °C	

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Thermal	Value	Test Method
RTI Str		UL 746
1.50 mm	125 °C	
3.00 mm	125 °C	
6.00 mm	125 °C	
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042 ISO 2796
Outdoor Suitability	f2, f1	UL 746C

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