



Component - Plastics

File Number: E41613

Covestro Deutschland AG [PC Resins]

Chempark, Gebaeude B207, Leverkusen 51368 DE



Makrolon: AL2647 + (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.

(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
2.50 mm, ALL	HB	
3.00 mm, ALL	HB	
6.00 mm, ALL	HB	
0.750 mm, ALL	V-2	
1.50 to 2.40 mm, ALL	V-2	
Flammability Classification		IEC 60695-11-10, -20
3.00 mm, ALL	HB40	
6.00 mm, ALL	HB40	
2.50 mm, ALL	HB75	
0.750 mm, ALL	V-2	
1.50 to 2.40 mm, ALL	V-2	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
1.50 to 2.40 mm	PLC 3	
2.50 mm	PLC 3	
3.00 mm	PLC 2	
6.00 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
1.50 to 2.40 mm	PLC 0	
2.50 mm	PLC 0	
3.00 mm	PLC 0	
6.00 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746
Dielectric Strength	29 kV/mm	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 5	ASTM D495
Electric Strength	29 kV/mm	IEC 60243-1

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Thermal	Value	Test Method
RTI Elec		UL 746
0.750 mm	125 °C	
1.50 to 2.40 mm	125 °C	
2.50 mm	125 °C	
3.00 mm	125 °C	
6.00 mm	125 °C	
RTI Imp		UL 746
0.750 mm	115 °C	
1.50 to 2.40 mm	115 °C	
2.50 mm	115 °C	
3.00 mm	115 °C	
6.00 mm	115 °C	
RTI Str		UL 746
0.750 mm	125 °C	
1.50 to 2.40 mm	125 °C	
2.50 mm	125 °C	
3.00 mm	125 °C	
6.00 mm	125 °C	
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042
Dimensional Stability	0.0 %	ISO 2796
Outdoor Suitability	f1	UL 746C

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