



2805 + (z)(f1)

File Number: E41613

Yellow Card® 

COMPANY

Covestro Deutschland AG [PC Resins]
Chempark
Gebaeude B207
Leverkusen, 51368 Germany

MODEL INFO

Makrolon: 2805 + (z)(f1)
Polycarbonate (PC), furnished as pellets
+ – Material designations may be followed by a six digit numerical code denoting color.
(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)
(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.75 mm, Color: ALL	V-2	
1.5 to 2.4 mm, Color: ALL	V-2	
2.5 mm, Color: ALL	HB	
3.0 mm, Color: ALL	HB	
6.0 mm, Color: ALL	HB	

ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
0.75 mm, Color: ALL	V-2	
1.5 to 2.4 mm, Color: ALL	V-2	
2.5 mm, Color: ALL	HB75	
3.0 mm, Color: ALL	HB40	

6.0 mm, Color: ALL	HB40	
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	PLC 3	
1.5 to 2.4 mm	PLC 2	
2.5 mm	PLC 2	
3.0 mm	PLC 2	
6.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	PLC 0	
1.5 to 2.4 mm	PLC 0	
2.5 mm	PLC 0	
3.0 mm	PLC 0	
6.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	29 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	
Inclined-Plane Tracking (IPT)	1.0 kV	ASTM D2303
High Voltage, Low Current Arc Resistance	PLC 5	
THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength		UL 746B
0.75 mm	125 °C	
1.5 to 2.4 mm	125 °C	
2.5 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
0.75 mm	115 °C	
1.5 to 2.4 mm	115 °C	

2.5 mm	115 °C
3.0 mm	115 °C
6.0 mm	115 °C
Relative Thermal Index - Mechanical Strength	UL 746B
0.75 mm	125 °C
1.5 to 2.4 mm	125 °C
2.5 mm	125 °C
3.0 mm	125 °C
6.0 mm	125 °C

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Dimensional Change	0.0 %	ASTM D1042/ISO 2796
UV Exposure & Water Immersion	f1	UL 746C

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