



6485 + (z)(f1)

File Number: E41613

Yellow Card® 

COMPANY

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

MODEL INFO

Makrolon: 6485 + (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
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	5VA V-0	
6.0 mm, Color: ALL	5VA V-0	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	V-0	

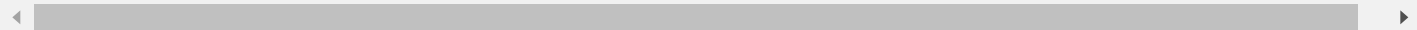
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6.0 mm, Color: ALL	V-0	
Flammability	IEC 60695-11-20	
3.0 mm, Color: ALL	5VA	
6.0 mm, Color: ALL	5VA	
Glow Wire Flammability Index (GWFI)	IEC 60695-2-12	
1.5 mm	960 °C	
3.0 mm	960 °C	
6.0 mm	960 °C	
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)	UL 746A	
1.5 mm	PLC 2	
3.0 mm	PLC 1	
6.0 mm	PLC 0	
High Amp Arc Ignition (HAI)	UL 746A	
1.5 mm	PLC 3	
3.0 mm	PLC 2	
6.0 mm	PLC 2	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	24 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 3	
Volume Resistivity	1.0E+16 ohms·cm	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance	PLC 5	
THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength	UL 746B	
1.5 mm	125 °C	
3.0 mm	125 °C	

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6.0 mm	125 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
1.5 mm	115 °C	
3.0 mm	115 °C	
6.0 mm	115 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
1.5 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	
Ball Pressure Temperature		135 °C
PHYSICAL PROPERTIES	VALUE	TEST METHOD
Dimensional Change	0.0 %	ASTM D1042/ISO 2796
UV Exposure & Water Immersion	f1	UL 746C

Report Date: 1995-06-29

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