

Model FR6005 + (z), FR6005 + RE, FR6005 + (z) RE(b) CQ

File Number: E41613



COMPANY

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

MODEL INFO

FR6005 + (z), FR6005 + RE, FR6005 + (z) RE(b) CQ
Polycarbonate (PC) "Makrolon", impact modified, 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)
(b) – Replaced by two digits 01 to 99, which do not impact the UL Safety critical properties.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.60 mm, Color: BK	V-2	
0.75 mm, Color: ALL	V-2	
1.0 mm, Color: BK	V-0	
1.2 mm, Color: ALL	V-1	
1.2 mm, Color: BK	V-0	
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	V-0	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
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0.75 mm, Color: ALL	V-2	
1.0 mm, Color: BK		
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1.2 mm, Color: ALL	V-1	
1.2 mm, Color: BK	V-0	
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	V-0	
Glow Wire Ignition Temperature (GWIT)		IEC 60695-2-13
1.0 mm	875 °C	
1.5 mm	850 °C	
3.0 mm	900 °C	
Glow Wire Flammability Index (GWFI)		IEC 60695-2-12
1.0 mm	850 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
1.0 mm	PLC 2	
1.2 mm	PLC 2	
1.5 mm	PLC 2	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746A
1.0 mm	PLC 0	
1.2 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 3	UL 746A
Dielectric Strength	31 kV/mm	ASTM D149
Volume Resistivity	1.0E+16 ohms-cm	ASTM D257/IEC 60093

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Relative Thermal Index - Electrical Strength	UL 746B
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0.60 mm	80 °C
0.75 mm	125 °C
1.0 mm	125 °C
1.2 mm	125 °C
1.5 mm	125 °C
3.0 mm	125 °C
Relative Thermal Index - Mechanical Impact	
UL 746B	
0.60 mm	80 °C
0.75 mm	105 °C
1.0 mm	105 °C
1.2 mm	105 °C
1.5 mm	105 °C
3.0 mm	105 °C
Relative Thermal Index - Mechanical Strength	
UL 746B	
0.60 mm	80 °C
0.75 mm	115 °C
1.0 mm	115 °C
1.2 mm	115 °C
1.5 mm	115 °C
3.0 mm	115 °C
Ball Pressure Temperature	134 °C

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