

Model FR6005 UV + (z)(f1)

File Number: E41613



COMPANY

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

MODEL INFO

FR6005 UV + (z)(f1)
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)
(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 (3.0 mm, Color: BK, WT)	V-0	ANSI/UL 94
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability (3.0 mm, Color: BK, WT)	V-0	IEC 60695-11-10
Glow Wire Ignition Temperature (GWIT) (3.0 mm)	900 °C	IEC 60695-2-13
Glow Wire Flammability Index (GWFI) (3.0 mm)	960 °C	IEC 60695-2-12
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
UL Solutions 的 Cookie Hot wire Ignition (HWI) (3.0 mm)	PLC 0	UL 746A
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High Amp Arc Ignition (HAI) (3.0 mm)	PLC 0	UL 746A
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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
THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength (3.0 mm)	125 °C	UL 746B
Relative Thermal Index - Mechanical Impact (3.0 mm)	105 °C	UL 746B
Relative Thermal Index - Mechanical Strength (3.0 mm)	115 °C	UL 746B
Ball Pressure Temperature	134 °C	
PHYSICAL PROPERTIES	VALUE	TEST METHOD
UV Exposure & Water Immersion	f1	UL 746C

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