

FR3010 HR +

File Number: E41613

Yellow Card® 

COMPANY

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

MODEL INFO

Bayblend: FR3010 HR +
Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS), furnished as pellets
+ – Material designations may be followed by a six digit numerical code denoting color.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
1.2 mm, Color: ALL	V-1	
1.5 mm, Color: ALL	V-0	
2.0 mm, Color: ALL	5VB V-0	
3.0 mm, Color: ALL	5VB V-0	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.2 mm, Color: ALL	V-1	
1.5 mm, Color: ALL	V-0	
2.0 mm, Color: ALL	V-0	

2022/12/19	FR3010 HR + UL Product iQ	
3.0 mm, Color: ALL	V-0	
Flammability	IEC 60695-11-20	
2.0 mm, Color: ALL	5VB	
3.0 mm, Color: ALL	5VB	
Glow Wire Ignition Temperature (GWIT)	IEC 60695-2-13	
0.75 mm	750 °C	
1.0 mm	825 °C	
1.5 mm	825 °C	
2.0 mm	850 °C	
3.0 mm	825 °C	
Glow Wire Flammability Index (GWFI)	IEC 60695-2-12	
0.75 mm	850 °C	
1.0 mm	960 °C	
1.5 mm	960 °C	
2.0 mm	960 °C	
3.0 mm	960 °C	
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)	UL 746A	
0.75 mm	PLC 3	
1.0 mm	PLC 3	
1.2 mm	PLC 3	
1.5 mm	PLC 2	
2.0 mm	PLC 1	
3.0 mm	PLC 1	
High Amp Arc Ignition (HAI)	UL 746A	
0.75 mm	PLC 0	
1.0 mm	PLC 0	
1.2 mm	PLC 0	

2022/12/19	FR3010 HR + UL Product iQ	
1.5 mm	PLC 0	
2.0 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	37 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 4	
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
0.75 mm	60 °C	
1.0 mm	95 °C	
1.2 mm	95 °C	
1.5 mm	95 °C	
2.0 mm	95 °C	
3.0 mm	95 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
0.75 mm	90 °C	
1.0 mm	90 °C	
1.2 mm	90 °C	
1.5 mm	90 °C	
2.0 mm	90 °C	
3.0 mm	90 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
0.75 mm	95 °C	
1.0 mm	95 °C	
1.2 mm	95 °C	

2022/12/19FR3010 HR + | UL Product iQ

1.5 mm	95 °C
2.0 mm	95 °C
3.0 mm	95 °C
Ball Pressure Temperature	98 °C

Report Date: 2013-08-07
Revision Date: 2019-10-21



The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2022 UL LLC."