Grade Designation PolyPro FR II

File Number: E228440

Yellow Card™

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ALSO CERTIFIED TO IEC/ISO REQUIREMENTS

Component - Plastics E228440

Guide Information View Certificate of Compliance

GUND CO INC

2121 WALTON RD, SAINT LOUIS, MO 63114-5807 United States

PolyPro FR II

Polypropylene (PP), flame retardant, furnished as pellets and sheets

Color	Min. Thk (mm)	Flame Class	HWI (PLC)	HAI (PLC)	GWIT (°C)	GWFI (°C)	RTI Elec (°C)	RTI Imp (°C)	RTI Str (°C)
BK	0.13	VTM-0	0	1	--	--	110	--	110
BK, WT	0.23	VTM-0	0	0	--	--	110	--	110
	0.40	V-0	0	0	--	--	110	--	110
	0.70	V-0	0	0	--	--	110	--	110
	1.0	V-0	0	0	--	--	110	--	110
	1.5	V-0	0	0	--	--	110	--	110
	2.1	V-0	0	0	--	--	110	--	110
	3.0	V-0	0	0	--	--	115	--	115

Comparative Tracking Index (CTI) (PLC):	0	IEC Comparative Tracking Index (V):	--	IEC CTI Material Group:	--
Inclined Plane Tracking (IPT) (kV):	--	High-Voltage Arc Tracking Rate (HVTR) (PLC):	0	Dielectric Strength (DS) (kV/mm):	40
Volume Resistivity (VR) (10^x ohm cm):	16	Ball Pressure Temperature (BPT) (°C):	--	High Volt, Low Current Arc Resis (D495):	5

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.13 mm, Color: BK	VTM-0	
0.23 mm, Color: BK, WT	VTM-0	

0.40 mm, Color: BK, WT	V-0
0.70 mm, Color: BK, WT	V-0
1.0 mm, Color: BK, WT	V-0
1.5 mm, Color: BK, WT	V-0
2.1 mm, Color: BK, WT	V-0
3.0 mm, Color: BK, WT	V-0

ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
0.13 mm, Color: BK	VTM-0	
0.23 mm, Color: BK, WT	VTM-0	
0.40 mm, Color: BK, WT	V-0	
0.70 mm, Color: BK, WT	V-0	
1.0 mm, Color: BK, WT	V-0	
1.5 mm, Color: BK, WT	V-0	
2.1 mm, Color: BK, WT	V-0	
3.0 mm, Color: BK, WT	V-0	

ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
0.13 mm	PLC 0	
0.23 mm	PLC 0	
0.40 mm	PLC 0	
0.70 mm	PLC 0	
1.0 mm	PLC 0	
1.5 mm	PLC 0	
2.1 mm	PLC 0	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746A
0.13 mm	PLC 1	
0.23 mm	PLC 0	

0.40 mm	PLC 0	
0.70 mm	PLC 0	
1.0 mm	PLC 0	
1.5 mm	PLC 0	
2.1 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746A
Dielectric Strength	40 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	
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
0.13 mm	110 °C	
0.23 mm	110 °C	
0.40 mm	110 °C	
0.70 mm	110 °C	
1.0 mm	110 °C	
1.5 mm	110 °C	
2.1 mm	110 °C	
3.0 mm	115 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
0.13 mm	110 °C	
0.23 mm	110 °C	
0.40 mm	110 °C	
0.70 mm	110 °C	
1.0 mm	110 °C	
1.5 mm	110 °C	

2.1 mm	110 °C
3.0 mm	115 °C

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