

# Grade Designation PolyPro FR II

File Number: E228440

Yellow Card™



Component - Plastics

E228440

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**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<br>(mm) | Flame<br>Class | HWI<br>(PLC) | HAI<br>(PLC) | GWIT<br>(°C) | GWFI<br>(°C) | RTI Elec<br>(°C) | RTI Imp<br>(°C) | RTI Str<br>(°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 0  
(CTI) (PLC):

IEC Comparative Tracking --  
Index (V):

IEC CTI Material Group: --

Inclined Plane Tracking (IPT) --  
(kV):

High-Voltage Arc Tracking Rate 0  
(HVTR) (PLC):

Dielectric Strength (DS) 40  
(kV/mm):

Volume Resistivity (VR) (10<sup>x</sup> 16  
ohm cm):

Ball Pressure Temperature --  
(BPT) (°C):

High Volt, Low Current Arc Resis 5  
(D495):

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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|                                        |              |                    |
|----------------------------------------|--------------|--------------------|
| 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          |                    |
|                                        |              |                    |
| <b>ISO/IEC FLAMMABILITY PROPERTIES</b> | <b>VALUE</b> | <b>TEST METHOD</b> |
| 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          |                    |
|                                        |              |                    |
| <b>ELECTRICAL PROPERTIES</b>           | <b>VALUE</b> | <b>TEST METHOD</b> |
| 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        |                    |

|                                          |                 |                     |
|------------------------------------------|-----------------|---------------------|
| 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 |             |

2.1 mm

110 °C

3.0 mm

115 °C

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