



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## Copolymer Polypropylene Semi-Crystalline Commodity Plastic

Copolymer Polypropylene is a low-cost commercial grade of thermoplastics for non-critical applications. It offers resistance to stress cracking, ease of fabrication, and minimal centerline porosity. Copolymer Polypropylene is also FDA and NSF-compliant. It is used in die-cutting pads, fire truck water/foam tanks, orthotic/prosthetic devices, and plating/anodizing process equipment.

*PolyPro FR is The Gund Company's commercial grade of flame-retardant Copolymer Polypropylene.*

The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

| PROPERTIES              | ISO/IEC  |              |                | ASTM            |                    |                |                  |
|-------------------------|--|--------------|----------------|-----------------|--------------------|----------------|------------------|
|                         | Test Method                                    | Units        | Typical Values | Test Method     | Units              | Typical Values |                  |
| <b>PHYSICAL</b>         | Specific Gravity                               |              |                | ASTM D792       |                    | 0.90           |                  |
|                         | Coefficient of Friction: Dynamic               |              |                | QTM 55007       |                    | 0.25           |                  |
| <b>THERMAL</b>          | Melting Temperature: DSC, 10°C(50°F)/min       |              |                | ASTM D3418      | °F                 | 305            |                  |
|                         | CLTE (-40 to 150°C) (-40 to 300°F)             |              |                | ASTM E831 (TMA) | µin/in·°F          | 46             |                  |
|                         | Continuous Service Temperature in Air: 20 hrs. |              |                |                 | °F                 | 180            |                  |
|                         | Flammability: UL94 (3mm (1/8 in.))             |              | HB             |                 |                    | HB             |                  |
| <b>MECHANICAL</b>       | Ultimate Tensile Strength                      | ISO 527-1/-2 | MPa            | -               | ASTM D638          | PSI            | 3,400            |
|                         | Tensile Strain at Yield                        | ISO 527-1/-2 | %              | -               | ASTM D638          | %              | 11               |
|                         | Tensile Strain at Break                        | ISO 527-1/-2 | %              | -               | ASTM D638          | %              | 300              |
|                         | Tensile Modulus of Elasticity                  | ISO 527-1/-2 | GPa            | -               | ASTM D638          | KSI            | 152              |
|                         | Compressive Strength                           |              |                |                 | ASTM D695          | PSI            | 4,800            |
|                         | IZOD Impact Strength: Notched                  |              |                |                 | ASTM D256          | ft-lb/in       | 8                |
|                         | Flexural Strength                              | ISO 178      | MPa            | -               | ASTM D790          | PSI            | 4,800            |
|                         | Flexural Modulus                               | ISO 178      | GPa            | -               | ASTM D790          | KSI            | 180              |
| Shore Hardness: D Scale | ISO 868  |              | -              | ASTM D2240      |                    | 72             |                  |
| <b>ELECTRICAL</b>       | Surface Resistivity                            |              |                |                 | ANSI/ESD STM 11.11 | Ohms/sq        | 10 <sup>14</sup> |

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.