

## BASF Procom® GC30S 401 Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

### Material Notes:

Uses: Electrical appliance housings (e.g. drills), components requiring high impact and temperature resistance, furniture frames. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Procom-GC30S-401-Polypropylene.php](http://www.lookpolymers.com/polymer_BASF-Procom-GC30S-401-Polypropylene.php)

| Physical Properties         | Metric       | English                   | Comments |
|-----------------------------|--------------|---------------------------|----------|
| Density                     | 1.12 g/cc    | 0.0405 lb/in <sup>3</sup> |          |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in              |          |

| Mechanical Properties      | Metric                 | English                    | Comments |
|----------------------------|------------------------|----------------------------|----------|
| Tensile Strength, Ultimate | 61.0 MPa               | 8850 psi                   |          |
| Elongation at Break        | 3.5 %                  | 3.5 %                      |          |
| Tensile Modulus            | 5.70 GPa               | 827 ksi                    |          |
| Charpy Impact Unnotched    | 5.50 J/cm <sup>2</sup> | 26.2 ft-lb/in <sup>2</sup> |          |
|                            | 5.00 J/cm <sup>2</sup> | 23.8 ft-lb/in <sup>2</sup> |          |
|                            | @Temperature -30.0 °C  | @Temperature -22.0 °F      |          |

| Thermal Properties                          | Metric               | English              | Comments |
|---------------------------------------------|----------------------|----------------------|----------|
| CTE, linear, Parallel to Flow               | 30.0 µm/m-°C         | 16.7 µin/in-°F       |          |
|                                             | @Temperature 20.0 °C | @Temperature 68.0 °F |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 159 °C               | 318 °F               |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 140 °C               | 284 °F               |          |
| Vicat Softening Point                       | 100 °C               | 212 °F               |          |
| Flammability, UL94                          | HB                   | HB                   |          |
|                                             | @Thickness 0.750 mm  | @Thickness 0.0295 in |          |

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