

## TPI Porene® GA300 High Flow Grade, High Gloss ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

### Material Notes:

INJECTION MOLDING. APPLIANCES, BUSINESS EQUIPMENT, ELECTRICAL PARTS, AUTOMOTIVE APPLICATIONS, HOUSEHOLD GOODS, TOYS  
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Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_TPI-Porene-GA300-High-Flow-Grade-High-Gloss-ABS.php](http://www.lookpolymers.com/polymer_TPI-Porene-GA300-High-Flow-Grade-High-Gloss-ABS.php)

| Physical Properties         | Metric                                              | English                                             | Comments   |
|-----------------------------|-----------------------------------------------------|-----------------------------------------------------|------------|
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0060 cm/cm                               | 0.0040 - 0.0060 in/in                               | ASTM D955  |
| Melt Flow                   | 30 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 °C | 30 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 °F | ASTM D1238 |

| Mechanical Properties     | Metric    | English       | Comments                |
|---------------------------|-----------|---------------|-------------------------|
| Hardness, Rockwell R      | 112       | 112           | 0.250 inch; ASTM D785   |
| Tensile Strength at Break | 47.1 MPa  | 6830 psi      | ASTM D638               |
| Flexural Yield Strength   | 65.7 MPa  | 9530 psi      | ASTM D790               |
| Flexural Modulus          | 2.25 GPa  | 327 ksi       | ASTM D790               |
| Izod Impact, Notched      | 2.16 J/cm | 4.04 ft-lb/in | 0.250 inches; ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments                            |
|---------------------------------------------|---------|---------|-------------------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 93.9 °C | 201 °F  | 0.250 inch; Unannealed; ASTM D648   |
| Deflection Temperature at 1.8 MPa (264 psi) | 86.1 °C | 187 °F  | Unannealed; 0.250 inches; ASTM D648 |
| Flammability, UL94                          | HB      | HB      | 0.126 inch                          |

| Processing Properties | Metric         | English      | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature      | 180 - 250 °C   | 356 - 482 °F |          |
| Mold Temperature      | 40.0 - 60.0 °C | 104 - 140 °F |          |
| Drying Temperature    | 80.0 - 85.0 °C | 176 - 185 °F |          |
| Dry Time              | 2 - 3 hour     | 2 - 3 hour   |          |

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