

## IRPC Polimaxx Porene GA300 Acrylonitrile Butadiene Styrene

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Applications: injection molding for electrical appliances, toys.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_IRPC-Polimaxx-Porene-GA300-Acrylonitrile-Butadiene-Styrene.php](http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Porene-GA300-Acrylonitrile-Butadiene-Styrene.php)

| Physical Properties | Metric   | English  | Comments   |
|---------------------|--|--|------------|
| Melt Flow           | 30 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 Å°C | 30 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 Å°F | ASTM D1238 |

| Mechanical Properties      | Metric   | English   | Comments  |
|----------------------------|--|---|-----------|
| Hardness, Rockwell R       | 112<br>@Thickness 6.35 mm,<br>Temperature 23.0 Å°C       | 112<br>@Thickness 0.250 in,<br>Temperature 73.4 Å°F           | ASTM D785 |
| Tensile Strength, Ultimate | 47.1 MPa<br>@Temperature 23.0<br>Å°C                     | 6830 psi<br>@Temperature 73.4 Å°F                             | ASTM D638 |
| Flexural Yield Strength    | 65.7 MPa<br>@Temperature 23.0<br>Å°C                     | 9530 psi<br>@Temperature 73.4 Å°F                             | ASTM D790 |
| Flexural Modulus           | 2.26 GPa<br>@Temperature 23.0<br>Å°C                     | 327 ksi<br>@Temperature 73.4 Å°F                              | ASTM D790 |
| Izod Impact, Notched       | 2.16 J/cm<br>@Thickness 6.35 mm,<br>Temperature 23.0 Å°C | 4.04 ft-lb/in<br>@Thickness 0.250 in,<br>Temperature 73.4 Å°F | ASTM D256 |

| Thermal Properties                             | Metric                         | English                        | Comments  |
|--|--------------------------------|--------------------------------|-----------|
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 94.0 Å°C<br>@Thickness 6.35 mm | 201 Å°F<br>@Thickness 0.250 in | ASTM D648 |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 86.0 Å°C<br>@Thickness 6.35 mm | 187 Å°F<br>@Thickness 0.250 in | ASTM D648 |
| Flammability, UL94                             | HB<br>@Thickness 1.50 mm       | HB<br>@Thickness 0.0591 in     |           |

| Thermal Properties | <sup>HB</sup><br>Metric | <sup>HB</sup><br>English | Comments |
|--------------------|-------------------------|--------------------------|----------|
|                    | @Thickness 3.10 mm      | @Thickness 0.122 in      |          |

| Processing Properties  | Metric                                       | English                                 | Comments |
|------------------------|--|---|----------|
| Processing Temperature | 190 - 240 Å°C                                | 374 - 464 Å°F                           |          |
| Drying Temperature     | 80.0 - 90.0 Å°C<br>@Time 7200 - 18000<br>sec | 176 - 194 Å°F<br>@Time 2.00 - 5.00 hour |          |

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