

## Multibase Multi-Pro® 1004 R Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Features: Scratch Resistance, GoodHeat Resistance, HighStiffness, GoodForms: PelletsProcessing Methods: Injection MoldingInformation provided by Multibase

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-Multi-Pro-1004-R-Polypropylene.php](http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-1004-R-Polypropylene.php)

| Physical Properties   | Metric       | English                   | Comments   |
|-----------------------|--------------|---------------------------|------------|
| Density               | 0.970 g/cc   | 0.0350 lb/in <sup>3</sup> | ASTM D792  |
| Linear Mold Shrinkage | 0.0060 cm/cm | 0.0060 in/in              | ASTM D955  |
| Melt Flow             | 4.0 g/10 min | 4.0 g/10 min              | ASTM D1238 |

| Mechanical Properties   | Metric     | English       | Comments        |
|-------------------------|------------|---------------|-----------------|
| Tensile Strength, Yield | 39.3 MPa   | 5700 psi      | ASTM D638       |
| Elongation at Break     | 6.0 %      | 6.0 %         | ASTM D638       |
| Flexural Modulus        | 2.76 GPa   | 400 ksi       | ASTM D790       |
| Izod Impact, Notched    | 0.534 J/cm | 1.00 ft-lb/in | 73°F; ASTM D256 |

| Thermal Properties                          | Metric | English | Comments              |
|---------------------------------------------|--------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 135 °C | 275 °F  | Unannealed; ASTM D648 |

| Processing Properties     | Metric            | English         | Comments |
|---------------------------|-------------------|-----------------|----------|
| Rear Barrel Temperature   | 199 - 260 °C      | 390 - 500 °F    |          |
| Middle Barrel Temperature | 204 - 260 °C      | 400 - 500 °F    |          |
| Front Barrel Temperature  | 216 - 260 °C      | 420 - 500 °F    |          |
| Nozzle Temperature        | 216 - 249 °C      | 420 - 480 °F    |          |
| Mold Temperature          | 4.44 - 65.6 °C    | 40.0 - 150 °F   |          |
| Drying Temperature        | 93.3 °C           | 200 °F          |          |
| Dry Time                  | 2 hour            | 2 hour          |          |
| Back Pressure             | 0.138 - 0.345 MPa | 20.0 - 50.0 psi |          |
| Screw Speed               |                   |                 |          |

| Processing Properties  | 40 - 100 rpm<br>Metric   | 40 - 100 rpm<br>English | Comments |
|------------------------|--------------------------|-------------------------|----------|
| Descriptive Properties | Value                    |                         | Comments |
| Clamp Tonnage          | 2-4 tons/in <sup>2</sup> |                         |          |
| Screw L/D Ratio        | 20:1                     |                         |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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