

**BASF Novolen® 1102 J Polypropylene**

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

**Material Notes:**

Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Novolen-1102-J-Polypropylene.php](http://www.lookpolymers.com/polymer_BASF-Novolen-1102-J-Polypropylene.php)

| Physical Properties                | Metric                                               | English                                              | Comments |
|------------------------------------|------------------------------------------------------|------------------------------------------------------|----------|
| Density                            | 0.910 g/cc                                           | 0.0329 lb/in <sup>3</sup>                            |          |
| Water Absorption                   | 0.10 %                                               | 0.10 %                                               |          |
| Moisture Absorption at Equilibrium | 0.10 %                                               | 0.10 %                                               |          |
| Melt Flow                          | 3.4 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 3.4 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F |          |

| Mechanical Properties   | Metric                                           | English                                              | Comments |
|-------------------------|--------------------------------------------------|------------------------------------------------------|----------|
| Tensile Strength, Yield | 35.0 MPa                                         | 5080 psi                                             |          |
| Elongation at Break     | >= 50 %                                          | >= 50 %                                              |          |
| Elongation at Yield     | 11 %                                             | 11 %                                                 |          |
| Tensile Modulus         | 1.50 GPa                                         | 218 ksi                                              |          |
| Charpy Impact Unnotched | NB                                               | NB                                                   |          |
|                         | 1.70 J/cm <sup>2</sup><br>@Temperature -30.0 °C  | 8.09 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F  |          |
| Charpy Impact, Notched  | 0.400 J/cm <sup>2</sup>                          | 1.90 ft-lb/in <sup>2</sup>                           |          |
|                         | 0.180 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 0.857 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F |          |

| Thermal Properties                          | Metric                              | English                                | Comments |
|---------------------------------------------|-------------------------------------|----------------------------------------|----------|
| CTE, linear, Parallel to Flow               | 135 µm/m-°C<br>@Temperature 20.0 °C | 75.0 µin/in-°F<br>@Temperature 68.0 °F |          |
| Melting Point                               | 163 °C                              | 325 °F                                 |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 85.0 °C                             | 185 °F                                 |          |

| Thermal Properties<br><small>Deflection Temperature at 1.8 MPa<br/>(264 psi)</small> | Metric  | English | Comments |
|--------------------------------------------------------------------------------------|---------|---------|----------|
| Vicat Softening Point                                                                | 92.0 °C | 198 °F  |          |

| Electrical Properties      | Metric                            | English                           | Comments |
|----------------------------|-----------------------------------|-----------------------------------|----------|
| Electrical Resistivity     | $\geq 1.00 \times 10^{15}$ ohm-cm | $\geq 1.00 \times 10^{15}$ ohm-cm |          |
| Surface Resistance         | $1.00 \times 10^{14}$ ohm         | $1.00 \times 10^{14}$ ohm         |          |
| Dielectric Constant        | 2.3                               | 2.3                               |          |
|                            | @Frequency 1e+6 Hz                | @Frequency 1e+6 Hz                |          |
| Dielectric Strength        | 140 kV/mm                         | 3560 kV/in                        |          |
| Dissipation Factor         | 0.000070                          | 0.000070                          |          |
|                            | @Frequency 100 Hz                 | @Frequency 100 Hz                 |          |
|                            | 0.00020                           | 0.00020                           |          |
|                            | @Frequency 1e+6 Hz                | @Frequency 1e+6 Hz                |          |
| Comparative Tracking Index | 600 V                             | 600 V                             |          |

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