

## Borealis BF330MO Polypropylene Copolymer

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

### Material Notes:

BF330MO is a heterophasic copolymer. This polymer is characterized by an optimum combination of high stiffness, high impact strength and good flow properties. This grade is designed for high-speed injection molding and contains nucleating and antistatic additives. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Components molded from this grade show good eject ability, decreased tendency to warpage and distortion, and combine very good low-temperature impact strength with good stiffness, gloss and antistatic properties. Applications: general packaging, pails, crates, lids, and square containers. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-BF330MO-Polypropylene-Copolymer.php](http://www.lookpolymers.com/polymer_Borealis-BF330MO-Polypropylene-Copolymer.php)

| Physical Properties   | Metric                                              | English                                             | Comments |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|----------|
| Density               | 0.905 g/cc                                          | 0.0327 lb/in <sup>3</sup>                           | ISO 1183 |
| Linear Mold Shrinkage | 0.010 - 0.020 cm/cm                                 | 0.010 - 0.020 in/in                                 |          |
| Melt Flow             | 18 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 18 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ISO 1133 |

| Mechanical Properties   | Metric                                           | English                                             | Comments            |
|-------------------------|--------------------------------------------------|-----------------------------------------------------|---------------------|
| Hardness, Rockwell R    | 89                                               | 89                                                  | ISO 2309-2          |
| Tensile Strength, Yield | 26.0 MPa                                         | 3770 psi                                            | 50mm/min; ISO 527-2 |
| Elongation at Yield     | 6.0 %                                            | 6.0 %                                               | 50mm/min; ISO 527-2 |
| Tensile Modulus         | 1.30 GPa                                         | 189 ksi                                             | 1mm/min; ISO 527-2  |
| Charpy Impact, Notched  | 0.400 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 1.90 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F | ISO 179/1eA         |
|                         | 0.700 J/cm <sup>2</sup><br>@Temperature 23.0 °C  | 3.33 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  | ISO 179/1eA         |
| Puncture Energy         | 10.0 J<br>@Temperature -20.0 °C                  | 7.38 ft-lb<br>@Temperature -4.00 °F                 | ISO 6603-2          |
|                         | 13.0 J<br>@Temperature 0.000 °C                  | 9.59 ft-lb<br>@Temperature 32.0 °F                  | ISO 6603-2          |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties<br><small>Deflection Temperature at 0.46 MPa<br/>(66 psi)</small> | Metric | English | Comments |
|--------------------------------------------------------------------------------------|--------|---------|----------|
|--------------------------------------------------------------------------------------|--------|---------|----------|

| Processing Properties | Metric          | English         | Comments |
|-----------------------|-----------------|-----------------|----------|
| Melt Temperature      | 220 - 260 °C    | 428 - 500 °F    |          |
| Mold Temperature      | 10.0 - 30.0 °C  | 50.0 - 86.0 °F  |          |
| Hold Pressure         | 20.0 - 50.0 MPa | 2900 - 7250 psi |          |

| Descriptive Properties | Value            | Comments |
|------------------------|------------------|----------|
| Injection Velocity     | highest possible |          |

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