

## SABIC Innovative Plastics Lexan® BFL2000B PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Lexan BFL2000B resin is a Br- & Cl-free FR polycarbonate resin featuring high flow with balanced impact. It is available only in dark colors.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-BFL2000B-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-BFL2000B-PC-Asia-Pacific.php)

| Physical Properties            | Metric                                              | English                                             | Comments              |
|--------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------|
| Specific Gravity               | 1.20 g/cc                                           | 1.20 g/cc                                           | ASTM D792             |
| Density                        | 1.20 g/cc                                           | 0.0434 lb/in <sup>3</sup>                           | ISO 1183              |
| Moisture Absorption            | 0.150 %                                             | 0.150 %                                             | 23°C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.35 %                                              | 0.35 %                                              | ISO 62                |
| Linear Mold Shrinkage, Flow    | 0.0050 - 0.0070 cm/cm<br>@Thickness 3.20 mm         | 0.0050 - 0.0070 in/in<br>@Thickness 0.126 in        | SABIC Method          |
| Melt Flow                      | 29 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 °C | 29 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 °F | ASTM D1238            |

| Mechanical Properties   | Metric    | English       | Comments                          |
|-------------------------|-----------|---------------|-----------------------------------|
| Tensile Strength, Yield | 66.0 MPa  | 9570 psi      | Type I, 5 mm/min; ASTM D638       |
| Elongation at Yield     | 180 %     | 180 %         | Type I, 5 mm/min; ASTM D638       |
| Flexural Yield Strength | 93.0 MPa  | 13500 psi     | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus        | 2.18 GPa  | 316 ksi       | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched    | 7.16 J/cm | 13.4 ft-lb/in | ASTM D256                         |

| Thermal Properties                          | Metric                       | English                       | Comments              |
|---------------------------------------------|------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 127 °C<br>@Thickness 3.20 mm | 261 °F<br>@Thickness 0.126 in | unannealed; ASTM D648 |
| Flammability, UL94                          | V-2<br>@Thickness 0.750 mm   | V-2<br>@Thickness 0.0295 in   | UL 94                 |
|                                             | V-0<br>@Thickness 1.50 mm    | V-0<br>@Thickness 0.0591 in   | UL 94 by SABIC-IP     |

## Contact Songhan Plastic Technology Co.,Ltd.

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