# Covestro Bayblend® FR 2000 Polycarbonate/ABS Blend (discontinued **)

**Category :** Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

**Material Notes:**

Easy-flowing FR grade. Flame retardant grade with antimony, chlorine and bromine free, flame retardant package, optimized processability.Applications: Housings for office equipment, electrical engineering, computer sectors.Information provided by Bayer.As of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and has officially adopted its new name – Covestro. This product was discontinued prior to the separation.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR-2000-PolycarbonateABS-Blend-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 1.18 g/cc | 0.0426 lb/in³ | |
| Water Absorption | 0.70 % | 0.70 % | Saturation in water |
| Moisture Absorption at Equilibrium | 0.20 % | 0.20 % | Equilibrium at 50% RH |
| Water Absorption at Saturation | 0.70 % | 0.70 % | |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D955 |
| Melt Flow | 30 g/10 min<br>@Load 5.00 kg, Temperature 240 °C | 30 g/10 min<br>@Load 11.0 lb, Temperature 464 °F | |
| Spiral Flow | 76.0 cm<br>@Thickness 2.50 mm | 29.9 in<br>@Thickness 0.0984 in | at 254°C melt temp. |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Tensile Strength, Ultimate | 45.0 MPa | 6530 psi | ASTM D638 |
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | |
| Elongation at Break | 70 % | 70 % | ASTM D638 |
| Elongation at Yield | 4.0 % | 4.0 % | |
| Tensile Modulus | 2.70 GPa | 392 ksi | |
| Flexural Yield Strength | 95.0 MPa | 13800 psi | at 5% strain; ASTM D790 |
| Flexural Modulus | 2.70 GPa | 392 ksi | ASTM D790 |
| Izod Impact, Notched | 4.30 J/cm<br>@Thickness 3.20 mm | 8.06 ft-lb/in<br>@Thickness 0.126 in | ASTM D256 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Impact, Dart | 49.0 J<br>@Thickness 3.20 mm | 36.1 ft-lb<br>@Thickness 0.126 in | Instrumented Total Impact; 3.2 mm thick, 12.5 mm dart, 75 mm clamp, 6.7 m/s; ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| CTE, linear, Parallel to Flow | 76.0 µm/m-°C<br>@Temperature 20.0 °C | 42.2 µin/in-°F<br>@Temperature 68.0 °F | |
| CTE, linear, Transverse to Flow | 80.0 µm/m-°C<br>@Temperature 20.0 °C | 44.4 µin/in-°F<br>@Temperature 68.0 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 90.0 °C | 194 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 80.0 °C | 176 °F | |
| Vicat Softening Point | 92.0 °C | 198 °F | |
| UL RTI, Electrical | 90.0 °C | 194 °F | |
| UL RTI, Mechanical with Impact | 75.0 °C | 167 °F | |
| UL RTI, Mechanical without Impact | 85.0 °C | 185 °F | |
| Flammability, UL94 | V-0<br>@Thickness 1.60 mm | V-0<br>@Thickness 0.0630 in | |
| Oxygen Index | 34 % | 34 % | |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Electrical Resistivity | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm | |
| Surface Resistance | >= 1.00e+15 ohm | >= 1.00e+15 ohm | |
| Dielectric Constant | 2.9<br>@Frequency 1e+6 Hz | 2.9<br>@Frequency 1e+6 Hz | |
| | 3.0<br>@Frequency 100 Hz | 3.0<br>@Frequency 100 Hz | |
| Dielectric Strength | 30.0 kV/mm | 762 kV/in | |
| Dissipation Factor | 0.0050<br>@Frequency 100 Hz | 0.0050<br>@Frequency 100 Hz | |
| | 0.0070<br>@Frequency 1e+6 Hz | 0.0070<br>@Frequency 1e+6 Hz | |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Comparative Tracking Index | 300 V | 300 V | |

| Processing Properties | Metric | English | Comments |
|---|---|---|---|
| Melt Temperature | 220 - 270 °C | 428 - 518 °F | |

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