

## Covestro Bayblend® FR 3011 Polycarbonate + ABS, Flame Retardant Grade

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

### Material Notes:

Injection molding grade good flow high heat resistance Vicat/B 120 temperature = 118 °C UL-listing 94 V-0 (1.5 mm) antimony-, chlorine- and bromine-free flame retardant glow wire test (GWFI): 960 °C (2.0 mm) no juicing good light stability Preprocessing Max. Water content

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Covestro-Bayblend-FR-3011-Polycarbonate-ABS-Flame-Retardant-Grade.php](http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR-3011-Polycarbonate-ABS-Flame-Retardant-Grade.php)

| Physical Properties                | Metric                                              | English                                             | Comments                                                    |
|------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|
| Density                            | 1.19 g/cc                                           | 0.0430 lb/in <sup>3</sup>                           | ISO 1183                                                    |
| Water Absorption                   | 0.50 %                                              | 0.50 %                                              | Similar to ISO 62                                           |
| Moisture Absorption at Equilibrium | 0.20 %                                              | 0.20 %                                              | Similar to ISO 62                                           |
| Melt Flow                          | 20 g/10 min<br>@Load 5.00 kg,<br>Temperature 240 °C | 20 g/10 min<br>@Load 11.0 lb,<br>Temperature 464 °F | estimated from MVR using room temperature density; ISO 1133 |

| Mechanical Properties   | Metric   | English  | Comments     |
|-------------------------|----------|----------|--------------|
| Tensile Strength, Yield | 65.0 MPa | 9430 psi | ISO 527-1/-2 |
| Elongation at Yield     | 4.0 %    | 4.0 %    | ISO 527-1/-2 |
| Tensile Modulus         | 2.60 GPa | 377 ksi  | ISO 527-1/-2 |

| Thermal Properties                          | Metric                    | English                     | Comments            |
|---------------------------------------------|---------------------------|-----------------------------|---------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 108 °C                    | 226 °F                      | ISO 75-1/-2         |
| Deflection Temperature at 1.8 MPa (264 psi) | 98.0 °C                   | 208 °F                      | ISO 75-1/-2         |
| Vicat Softening Point                       | 116 °C                    | 241 °F                      | 50°C/h 50N; ISO 306 |
| Flammability, UL94                          | V-0<br>@Thickness 1.50 mm | V-0<br>@Thickness 0.0591 in | IEC 60695-11-10     |
|                                             | 5VB<br>@Thickness 2.00 mm | 5VB<br>@Thickness 0.0787 in | IEC 60695-11-20     |

| Processing Properties | Metric | English | Comments                   |
|-----------------------|--------|---------|----------------------------|
| Melt Temperature      | 240 °C | 464 °F  | Injection Molding; ISO 294 |

| Processing Properties | 240 - 270 °C<br>Metric | 464 - 518 °F<br>English | Comments                     |
|-----------------------|------------------------|-------------------------|------------------------------|
| Mold Temperature      | 60.0 - 80.0 °C         | 140 - 176 °F            |                              |
|                       | 80.0 °C                | 176 °F                  | Injection Molding; ISO 10724 |
| Injection Velocity    | 240 mm/sec             | 9.45 in/sec             | ISO 294                      |

| Descriptive Properties | Value                     | Comments |
|------------------------|---------------------------|----------|
| Availability           | Asia Pacific              |          |
|                        | Europe                    |          |
|                        | India                     |          |
|                        | Near East/Africa          |          |
|                        | South and Central America |          |
| Feature                | Release agent             |          |
| Form                   | Pellets                   |          |
| Process                | Injection Molding         |          |

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