

# Bayblend® FR3015 CTI

## PC

Covestro Deutschland AG

| Rheological properties      | Value | Unit      | Test Standard   |
|-----------------------------|-------|-----------|-----------------|
| <b>ISO Data</b>             |       |           |                 |
| Melt volume-flow rate, MVR  | 22    | cm³/10min | ISO 1133        |
| Temperature                 | 260   | °C        | -               |
| Load                        | 5     | kg        | -               |
| Molding shrinkage, parallel | 0.6   | %         | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 0.6   | %         | ISO 294-4, 2577 |

| Mechanical Properties                | Value    | Unit  | Test Standard |
|--------------------------------------|----------|-------|---------------|
| <b>ISO Data</b>                      |          |       |               |
| Tensile Modulus                      | 2370     | MPa   | ISO 527       |
| Yield stress                         | 62       | MPa   | ISO 527       |
| Yield strain                         | 5        | %     | ISO 527       |
| Nominal strain at break              | >50      | %     | ISO 527       |
| Stress at Break                      | 62       | MPa   | ISO 527       |
| Strain at Break                      | 118      | %     | ISO 527       |
| Notched Impact Strength (Izod), 23°C | 50       | kJ/m² | ISO 180/1A    |
| Notched Impact Strength (Izod)       | 19       | kJ/m² | ISO 180/1A    |
| Temperature                          | -30      | °C    | -             |
| Impact Strength (Izod), 23°C         | no break | kJ/m² | ISO 180/1U    |

| Thermal Properties                          | Value | Unit  | Test Standard  |
|---------------------------------------------|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Temp. of deflection under load (1.80 MPa)   | 101   | °C    | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa)   | 114   | °C    | ISO 75-1/-2    |
| Vicat softening temperature, 50°C/h 50N     | 118   | °C    | ISO 306        |
| Coeff. of Linear Therm. Expansion, parallel | 76    | E-6/K | ISO 11359-1/-2 |
| Coeff. of Linear Therm. Expansion, normal   | 78    | E-6/K | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm Nom. Thickn.       | V-0   | class | UL 94          |
| Thickness tested                            | 1.5   | mm    | -              |
| UL recognition                              | yes   | -     | -              |
| Glow Wire (GWFI, Flammability Index)        | 960   | °C    | IEC 60695-2-12 |
| GWFI - thickness tested (1)                 | 1.5   | mm    | -              |
| Glow Wire (GWFI, Flammability Index)        | 960   | °C    | IEC 60695-2-12 |
| GWFI - thickness tested (2)                 | 3     | mm    | -              |
| Glow Wire Ignition Temperature)             | 775   | °C    | IEC 60695-2-13 |
| GWIT - thickness tested (1)                 | 1.5   | mm    | -              |
| Glow Wire Ignition Temperature)             | 775   | °C    | IEC 60695-2-13 |
| GWIT - thickness tested (2)                 | 3     | mm    | -              |

| Electrical Properties      | Value | Unit  | Test Standard |
|----------------------------|-------|-------|---------------|
| <b>ISO Data</b>            |       |       |               |
| Volume Resistivity         | 4E16  | Ohm*m | IEC 62631-3-1 |
| Surface Resistivity        | 5E18  | Ohm   | IEC 62631-3-2 |
| Electric Strength          | 36    | kV/mm | IEC 60243-1   |
| Comparative tracking index | 600   | -     | IEC 60112     |

| Other Properties | Value | Unit  | Test Standard |
|------------------|-------|-------|---------------|
| <b>ISO Data</b>  |       |       |               |
| Density          | 1180  | kg/m³ | ISO 1183      |

| Test specimen production            | Value | Unit | Test Standard |
|-------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                     |       |      |               |
| Injection Molding, melt temperature | 260   | °C   | ISO 294       |
| Injection Molding, mold temperature | 80    | °C   | ISO 294       |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---------------------------------------------|-------|------|---------------|
| Pre-drying - Temperature                    | 80    | °C   | -             |
| Pre-drying - Time                           | 4     | h    | -             |
| Processing humidity                         | ≤0.02 | %    | -             |

|                    |           |     |   |
|--------------------|-----------|-----|---|
| Melt temperature   | 240 - 270 | °C  | - |
| Mold temperature   | 60 - 90   | °C  | - |
| Zone 1             | 220 - 230 | °C  | - |
| Zone 2             | 225 - 235 | °C  | - |
| Zone 3             | 230 - 240 | °C  | - |
| Nozzle temperature | 255 - 265 | °C  | - |
| Back pressure      | 5 - 15    | MPa | - |

## Characteristics

### Processing

Injection Molding

### Applications

Electrical and Electronical, Packaging

### Special Characteristics

Flame retardant, Impact modified

## Disclaimer

### Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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