

Bayblend® T65 XF

Polycarbonate + ABS

Covestro - Polycarbonates

PROSPECTOR®

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Technical Data

Product Description

(PC+ABS) blend; unreinforced; injection molding grade; Vicat/B 120 temperature = 120 °C; improved flowability compared to T65.

General

| | |
|-----------------------------|---|
| Material Status | • Commercial: Active |
| Literature ¹ | • Technical Datasheet (Chinese (Traditional)) • Technical Datasheet (Chinese) • Technical Datasheet (English) • Technical Datasheet (German) • Technical Datasheet (Japanese) |
| UL Yellow Card ² | • E41613-232987 |
| Search for UL Yellow Card | • Covestro - Polycarbonates • Bayblend® |
| Availability | • Africa & Middle East • Asia Pacific • Europe • Latin America • North America |
| Features | • Good Flow |
| RoHS Compliance | • RoHS Compliant |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-----------------------------|-----------------------------|--------------|
| Density (73°F (23°C)) | 1.13 g/cm ³ | 1.13 g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 kg) | 1.10 in ³ /10min | 18.0 cm ³ /10min | ISO 1133 |
| Molding Shrinkage ⁴ | | | ISO 2577 |
| Across Flow : 500°F (260°C), 0.118 in (3.00 mm) | 0.50 to 0.70 % | 0.50 to 0.70 % | |
| Flow : 500°F (260°C), 0.118 in (3.00 mm) | 0.50 to 0.70 % | 0.50 to 0.70 % | |
| Water Absorption | | | ISO 62 |
| Saturation, 73°F (23°C) | 0.70 % | 0.70 % | |
| Equilibrium, 73°F (23°C), 50% RH | 0.20 % | 0.20 % | |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Modulus (73°F (23°C)) | 348000 psi | 2400 MPa | ISO 527-2/1 |
| Tensile Stress | | | ISO 527-2/50 |
| Yield, 73°F (23°C) | 7830 psi | 54.0 MPa | |
| Break, 73°F (23°C) | 6820 psi | 47.0 MPa | |
| Tensile Strain | | | ISO 527-2/50 |
| Yield, 73°F (23°C) | 4.4 % | 4.4 % | |
| Break, 73°F (23°C) | > 50 % | > 50 % | |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact Strength | | | ISO 180/A |
| -22°F (-30°C) | 17 ft·lb/in ² | 35 kJ/m ² | |
| 73°F (23°C) | 21 ft·lb/in ² | 45 kJ/m ² | |
| Unnotched Izod Impact Strength | | | ISO 180 |
| -22°F (-30°C) | No Break | No Break | |
| 73°F (23°C) | No Break | No Break | |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Heat Deflection Temperature | | | |
| 66 psi (0.45 MPa), Unannealed | 252 °F | 122 °C | ISO 75-2/B |
| 264 psi (1.8 MPa), Unannealed | 216 °F | 102 °C | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 244 °F | 118 °C | ISO 306/B50 |
| -- | 248 °F | 120 °C | ISO 306/B120 |



| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| CLTE | | | ISO 11359-2 |
| Flow : 73 to 131°F (23 to 55°C) | 4.4E-5 in/in/°F | 8.0E-5 cm/cm/°C | |
| Transverse : 73 to 131°F (23 to 55°C) | 4.7E-5 in/in/°F | 8.5E-5 cm/cm/°C | |
| Electrical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Surface Resistivity | 1.0E+16 ohms | 1.0E+16 ohms | IEC 60093 |
| Volume Resistivity (73°F (23°C)) | 1.0E+16 ohms-cm | 1.0E+16 ohms-cm | IEC 60093 |
| Electric Strength | | | IEC 60243-1 |
| 73°F (23°C), 0.0394 in (1.00 mm) | 890 V/mil | 35 kV/mm | |
| Relative Permittivity | | | IEC 60250 |
| 73°F (23°C), 100 Hz | 3.10 | 3.10 | |
| 73°F (23°C), 1 MHz | 3.00 | 3.00 | |
| Dissipation Factor | | | IEC 60250 |
| 73°F (23°C), 100 Hz | 3.0E-3 | 3.0E-3 | |
| 73°F (23°C), 1 MHz | 8.5E-3 | 8.5E-3 | |
| Comparative Tracking Index (Solution A) | 250 V | 250 V | IEC 60112 |
| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Flame Rating (0.0335 in (0.850 mm)) | HB | HB | UL 94 |
| Fill Analysis | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Melt Viscosity ⁵ (500°F (260°C)) | 200 Pa·s | 200 Pa·s | ISO 11443-A |

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 150x105x3 mm, 80°C MT

⁵ 1000/s



Where to Buy

Supplier

Covestro - Polycarbonates

Leverkusen, Germany

Telephone: +49-214-6009-2000

Web: <http://www.plastics.covestro.com/>

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.

Telephone: +49-40-78105-0

Web: <http://www.albis.com/>

Availability: Algeria, Austria, Belgium, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hong Kong, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.

Telephone: 800-894-4266

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Availability: Global

