

# Bayblend® T65 XF

Standard grades / Non reinforced

(PC+ABS)-Blend; Vicat/B 120 temperature = 120 °C; improved flow compared with T65

ISO Shortname

PC+ABS

| Property                                              | Test Condition                  | Unit                    | Standard          | typical Value |
|-------------------------------------------------------|---------------------------------|-------------------------|-------------------|---------------|
| <b>Rheological properties</b>                         |                                 |                         |                   |               |
| C Melt volume-flow rate                               | 260 °C; 5 kg                    | cm <sup>3</sup> /10 min | ISO 1133          | 18            |
| Melt viscosity                                        | 1000 s <sup>-1</sup> ; 260 °C   | Pa·s                    | b.o. ISO 11443-A  | 200           |
| Molding shrinkage, parallel                           | 150x105x3 mm; 260 °C / MT 80 °C | %                       | b.o. ISO 2577     | 0.5 - 0.7     |
| Molding shrinkage, normal                             | 150x105x3 mm; 260 °C / MT 80 °C | %                       | b.o. ISO 2577     | 0.5 - 0.7     |
| <b>Mechanical properties (23 °C/50 % r. h.)</b>       |                                 |                         |                   |               |
| C Tensile modulus                                     | 1 mm/min                        | MPa                     | ISO 527-1,-2      | 2350          |
| C Yield stress                                        | 50 mm/min                       | MPa                     | ISO 527-1,-2      | 54            |
| C Yield strain                                        | 50 mm/min                       | %                       | ISO 527-1,-2      | 4.4           |
| Stress at break                                       | 50 mm/min                       | MPa                     | ISO 527-1,-2      | 47            |
| Strain at break                                       | 50 mm/min                       | %                       | b.o. ISO 527-1,-2 | > 50          |
| Flexural modulus                                      | 2 mm/min                        | MPa                     | ISO 178           | 2350          |
| Flexural stress at 3.5 % strain                       | 2 mm/min                        | MPa                     | ISO 178           | 73            |
| Flexural strength                                     | 2 mm/min                        | MPa                     | ISO 178           | 84            |
| Izod impact strength                                  | 23 °C                           | kJ/m <sup>2</sup>       | ISO 180-U         | N             |
| Izod impact strength                                  | -30 °C                          | kJ/m <sup>2</sup>       | ISO 180-U         | N             |
| Izod notched impact strength                          | 23 °C                           | kJ/m <sup>2</sup>       | ISO 180-A         | 48            |
| Izod notched impact strength                          | -30 °C                          | kJ/m <sup>2</sup>       | ISO 180-A         | 35            |
| <b>Thermal properties</b>                             |                                 |                         |                   |               |
| C Temperature of deflection under load                | 1.80 MPa                        | °C                      | ISO 75-1,-2       | 102           |
| C Temperature of deflection under load                | 0.45 MPa                        | °C                      | ISO 75-1,-2       | 122           |
| C Vicat softening temperature                         | 50 N; 50 °C/h                   | °C                      | ISO 306           | 118           |
| Vicat softening temperature                           | 50 N; 120 °C/h                  | °C                      | ISO 306           | 120           |
| C Coefficient of linear thermal expansion, parallel   | 23 to 55 °C                     | 10 <sup>-4</sup> /K     | ISO 11359-1,-2    | 0.8           |
| C Coefficient of linear thermal expansion, transverse | 23 to 55 °C                     | 10 <sup>-4</sup> /K     | ISO 11359-1,-2    | 0.85          |
| C Burning behavior UL 94 [UL recognition]             | 0.85 mm                         | Class                   | UL 94             | HB            |
| <b>Electrical properties (23 °C/50 % r. h.)</b>       |                                 |                         |                   |               |
| C Relative permittivity                               | 100 Hz                          | -                       | IEC 60250         | 3.1           |
| C Relative permittivity                               | 1 MHz                           | -                       | IEC 60250         | 3.0           |
| C Dissipation factor                                  | 100 Hz                          | 10 <sup>-4</sup>        | IEC 60250         | 30            |
| C Dissipation factor                                  | 1 MHz                           | 10 <sup>-4</sup>        | IEC 60250         | 85            |
| C Volume resistivity                                  |                                 | Ohm·m                   | IEC 60093         | 1E14          |
| C Surface resistivity                                 |                                 | Ohm                     | IEC 60093         | 1E16          |
| C Electrical strength                                 | 1 mm                            | kV/mm                   | IEC 60243-1       | 35            |
| C Comparative tracking index CTI                      | Solution A                      | Rating                  | IEC 60112         | 250           |
| <b>Other properties (23 °C)</b>                       |                                 |                         |                   |               |
| C Water absorption (saturation value)                 | Water at 23 °C                  | %                       | ISO 62            | 0.7           |
| C Water absorption (equilibrium value)                | 23 °C; 50 % r. h.               | %                       | ISO 62            | 0.2           |
| C Density                                             |                                 | kg/m <sup>3</sup>       | ISO 1183-1        | 1130          |

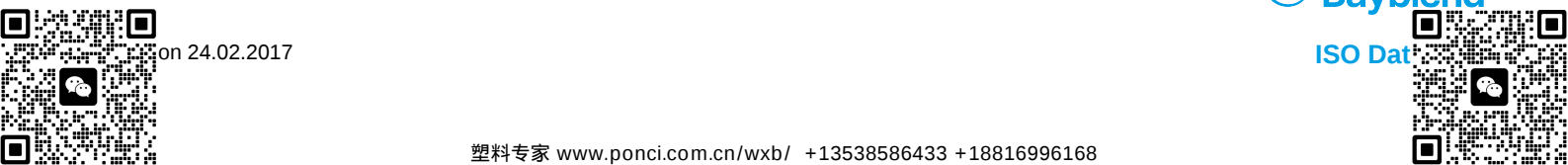


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| Property                                 | Test Condition | Unit | Standard | typical Value |
|------------------------------------------|----------------|------|----------|---------------|
| Processing conditions for test specimens |                |      |          |               |
| C Injection molding-Melt temperature     |                | °C   | ISO 294  | 260           |
| C Injection molding-Mold temperature     |                | °C   | ISO 294  | 80            |
| C Injection molding-Injection velocity   |                | mm/s | ISO 294  | 240           |

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

Impact properties: N = non-break, P = partial break, C = complete break





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## Disclaimer

Information Impact properties

Impact properties: N = non-break, P = partial break, C = complete break

Typical value

These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

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Disclaimer Non Medical Grade

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