



# Bayblend DP T90

Standard grades / Non reinforced

General purpose injection molding grade; Vicat/B 120 temperature = 127 °C; excellent flow.

ISO Shortname

| Property                                        | Test Condition                        | Unit                      | Standard          | Value       |
|-------------------------------------------------|---------------------------------------|---------------------------|-------------------|-------------|
| <b>Rheological properties</b>                   |                                       |                           |                   |             |
| Spiral flow length                              | 260 °C; 2 x 8.7 mm                    | mm                        | Bayer test        | 440         |
| C Melt volume-flow rate                         | 260 °C; 5 kg                          | cm <sup>3</sup> /(10 min) | ISO 1133          | 25          |
| Molding shrinkage, parallel                     | 150x105x3; 260 °C / MT 80 °C; 500 bar | %                         | acc. ISO 2577     | 0.55 - 0.75 |
| Molding shrinkage, normal                       | 150x105x3; 260 °C / MT 80 °C; 500 bar | %                         | acc. ISO 2577     | 0.55 - 0.75 |
| <b>Mechanical properties (23 °C/50 % r. h.)</b> |                                       |                           |                   |             |
| C Tensile modulus                               | 1 mm/min                              | MPa                       | ISO 527-1,-2      | 2300        |
| Strain at break                                 | 50 mm/min                             | %                         | acc. ISO 527-1,-2 | > 50        |
| Izod impact strength                            | 23 °C                                 | kJ/m <sup>2</sup>         | ISO 180-1U        | N           |
| Izod impact strength                            | -30 °C                                | kJ/m <sup>2</sup>         | ISO 180-1U        | N           |
| Izod notched impact strength                    | 23 °C                                 | kJ/m <sup>2</sup>         | ISO 180-1A        | 42          |
| Izod notched impact strength                    | -30 °C                                | kJ/m <sup>2</sup>         | ISO 180-1A        | 20          |
| <b>Thermal properties</b>                       |                                       |                           |                   |             |
| C Vicat softening temperature                   | 50 N; 50 °C/h                         | °C                        | ISO 306           | 125         |
| Vicat softening temperature                     | 50 N; 120 °C/h                        | °C                        | ISO 306           | 127         |
| C Burning behavior UL 94 (1.6 mm)               | 1.5 mm                                | Class                     | UL 94             | HB          |
| <b>Processing conditions for test specimens</b> |                                       |                           |                   |             |
| 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.

