

# Tecotek® BC40 UF85 NL CE

Polycarbonate + ABS  
Eurotec Engineering Plastics

Message:  
PC/ABS, unfilled, heat & UV stabilized, natural, high heat grade

| General Information                               |                        |           |             |
|---------------------------------------------------|------------------------|-----------|-------------|
| Additive                                          | Heat Stabilizer        |           |             |
|                                                   | UV Stabilizer          |           |             |
| Features                                          | Good UV Resistance     |           |             |
|                                                   | Heat Stabilized        |           |             |
|                                                   | Medium Heat Resistance |           |             |
| Agency Ratings                                    | EC 1907/2006 (REACH)   |           |             |
| RoHS Compliance                                   | RoHS Compliant         |           |             |
| Appearance                                        | Natural Color          |           |             |
| Processing Method                                 | Injection Molding      |           |             |
| Resin ID (ISO 1043)                               | (PC+ABS)               |           |             |
| Physical                                          | Nominal Value          | Unit      | Test Method |
| Density                                           | 1.15                   | g/cm³     | ISO 1183    |
| Mechanical                                        | Nominal Value          | Unit      | Test Method |
| Tensile Modulus (23°C)                            | 2250                   | MPa       | ISO 527-2   |
| Tensile Stress (Yield, 23°C)                      | 60.0                   | MPa       | ISO 527-2   |
| Tensile Strain (Break, 23°C)                      | > 50                   | %         | ISO 527-2   |
| Impact                                            | Nominal Value          | Unit      | Test Method |
| Notched Izod Impact Strength                      |                        |           | ISO 180/1A  |
| -30°C                                             | 30                     | kJ/m²     |             |
| 23°C                                              | 50                     | kJ/m²     |             |
| Unnotched Izod Impact Strength                    |                        |           | ISO 180/1U  |
| -30°C                                             | No Break               |           |             |
| 23°C                                              | No Break               |           |             |
| Thermal                                           | Nominal Value          | Unit      | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 120                    | °C        | ISO 75-2/A  |
| Vicat Softening Temperature                       | 130                    | °C        | ISO 306/B   |
| Electrical                                        | Nominal Value          | Unit      | Test Method |
| Surface Resistivity                               | 1.0E+15                | ohms      | IEC 60093   |
| Volume Resistivity                                | 1.0E+13                | ohms · cm | IEC 60093   |
| Flammability                                      | Nominal Value          | Unit      | Test Method |

| Flame Rating           |               | UL 94 |
|------------------------|---------------|-------|
| 0.750 mm               | HB            |       |
| 1.60 mm                | HB            |       |
| Injection              | Nominal Value | Unit  |
| Drying Temperature     | 80.0 to 100   | °C    |
| Drying Time            | 2.0 to 6.0    | hr    |
| Hopper Temperature     | 60.0 to 80.0  | °C    |
| Processing (Melt) Temp | 240 to 260    | °C    |
| Mold Temperature       | 40.0 to 80.0  | °C    |
| Injection Rate         | Moderate-Fast |       |
| Holding Pressure       | 50.0 to 100   | MPa   |
| Back Pressure          | Low           |       |

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