

# Tecotek® PC40 NL FA70

Polycarbonate  
Eurotec Engineering Plastics

Message:  
PC, unfilled, flame retardant - halogen (RoHS compliant), natural

| General Information                          |                      |                   |                 |
|----------------------------------------------|----------------------|-------------------|-----------------|
| Additive                                     | Flame Retardant      |                   |                 |
| Features                                     | Flame Retardant      |                   |                 |
| Agency Ratings                               | EC 1907/2006 (REACH) |                   |                 |
| RoHS Compliance                              | RoHS Compliant       |                   |                 |
| Appearance                                   | Natural Color        |                   |                 |
| Processing Method                            | Injection Molding    |                   |                 |
| Resin ID (ISO 1043)                          | PC FR(16)            |                   |                 |
| Physical                                     | Nominal Value        | Unit              | Test Method     |
| Density                                      | 1.23                 | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                            |                      |                   | Internal Method |
| Across Flow                                  | 0.50                 | %                 |                 |
| Flow                                         | 0.50                 | %                 |                 |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.20                 | %                 | ISO 62          |
| Moisture Content                             | < 0.10               | %                 | ISO 15512       |
| Back Pressure                                | Low                  |                   |                 |
| Mechanical                                   | Nominal Value        | Unit              | Test Method     |
| Tensile Modulus (23°C)                       | 2750                 | MPa               | ISO 527-2       |
| Tensile Stress (Break, 23°C)                 | 65.0                 | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                 | > 20                 | %                 | ISO 527-2       |
| Impact                                       | Nominal Value        | Unit              | Test Method     |
| Notched Izod Impact Strength (23°C)          | 8.0                  | kJ/m <sup>2</sup> | ISO 180/1A      |
| Thermal                                      | Nominal Value        | Unit              | Test Method     |
| Heat Deflection Temperature                  |                      |                   |                 |
| 0.45 MPa, Unannealed                         | 140                  | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                          | 120                  | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                  | 140                  | °C                | ISO 306/B       |
| Electrical                                   | Nominal Value        | Unit              | Test Method     |
| Surface Resistivity                          | 1.0E+15              | ohms              | IEC 60093       |
| Volume Resistivity                           | 1.0E+15              | ohms · cm         | IEC 60093       |
| Comparative Tracking Index (Solution A)      | 225                  | V                 | IEC 60112       |
| Flammability                                 | Nominal Value        | Unit              | Test Method     |
| Flame Rating (1.60 mm)                       | V-0                  |                   | UL 94           |

| Glow Wire Flammability Index (2.00 mm) | 960           | °C   | IEC 60695-2-12 |
|----------------------------------------|---------------|------|----------------|
| Injection                              | Nominal Value | Unit |                |
| Drying Temperature                     | 120           | °C   |                |
| Drying Time                            | 3.0 to 4.0    | hr   |                |
| Hopper Temperature                     | 60.0 to 80.0  | °C   |                |
| Processing (Melt) Temp                 | 250 to 290    | °C   |                |
| Mold Temperature                       | 80.0 to 100   | °C   |                |
| Injection Rate                         | Moderate-Fast |      |                |
| Holding Pressure                       | 60.0 to 120   | MPa  |                |

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