

# Tecnoprene® AK7HCT NAT001

Polypropylene Homopolymer

SO.F.TER. SPA

Message:

High crystallinity polypropylene homopolymer reinforced with 35% chemically coupled glass fiber, high heat stabilization

| General Information                                     |                                  |                   |                         |
|---------------------------------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Glass Fiber,35% Filler by Weight |                   |                         |
| Additive                                                | Heat Stabilizer                  |                   |                         |
| Features                                                | Chemically Coupled               |                   |                         |
|                                                         | Crystalline                      |                   |                         |
|                                                         | Heat Stabilized                  |                   |                         |
|                                                         | Homopolymer                      |                   |                         |
| Uses                                                    | Automotive Applications          |                   |                         |
| Agency Ratings                                          | EC 1907/2006 (REACH)             |                   |                         |
| Appearance                                              | Natural Color                    |                   |                         |
| Processing Method                                       | Injection Molding                |                   |                         |
| Physical                                                | Nominal Value                    | Unit              | Test Method             |
| Specific Gravity                                        | 1.18                             | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)               | 1.0                              | g/10 min          | ASTM D1238              |
| Molding Shrinkage                                       | 0.40                             | %                 | Internal Method         |
| Water Absorption (23°C, 24 hr)                          | 0.020                            | %                 | ASTM D570               |
| Ash Content                                             | 35                               | %                 | Internal Method         |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method             |
| Tensile Strength (Break)                                | 105                              | MPa               | ASTM D638               |
| Flexural Modulus                                        | 8600                             | MPa               | ASTM D790               |
| Flexural Strength                                       | 165                              | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value                    | Unit              | Test Method             |
| Charpy Notched Impact Strength (23°C)                   | 12                               | kJ/m <sup>2</sup> | ISO 179/1eA             |
| Notched Izod Impact (23°C)                              | 140                              | J/m               | ASTM D256               |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 151                              | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 139                              | °C                | ASTM D1525 <sup>1</sup> |
| CLTE - Flow                                             | 5.5E-5                           | cm/cm/°C          | ASTM D696               |
| Electrical                                              | Nominal Value                    | Unit              | Test Method             |
| Surface Resistivity                                     | 1.0E+15                          | ohms              | ASTM D257               |
| Dielectric Constant (1 kHz)                             | 2.60                             |                   | ASTM D150               |
| Comparative Tracking Index                              | 650                              | V                 | IEC 60112               |

| Flammability           | Nominal Value                     | Unit | Test Method |
|------------------------|-----------------------------------|------|-------------|
| Flame Rating (3.20 mm) | HB                                |      | UL 94       |
| Injection              | Nominal Value                     | Unit |             |
| Drying Temperature     | 80.0                              | °C   |             |
| Drying Time            | 2.0                               | hr   |             |
| Rear Temperature       | 220                               | °C   |             |
| Middle Temperature     | 240                               | °C   |             |
| Front Temperature      | 250                               | °C   |             |
| Mold Temperature       | 50.0 to 70.0                      | °C   |             |
| NOTE                   |                                   |      |             |
| 1.                     | Rate A (50°C/h), Loading 2 (50 N) |      |             |

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