

## Technical Data Sheet

### Percom KCG30 NATURAL

Polypropylene Copolymer

#### Product Description

Percom KCG 30F is a Polypropylene Copolymer (PPCP) material filled with 30% glass fiber, chemically coupled.

|                      |                               |
|----------------------|-------------------------------|
| Processing Method    | Injection Molding             |
| Attribute            | Chemically Coupled; Copolymer |
| Filler/Reinforcement | Glass Fiber, 30%              |

| Typical Properties                                      | Nominal Value | Units             | Test Method |
|---------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                         |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                        | 5.0           | g/10 min          | ISO 1133    |
| Density                                                 | 1.12          | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                       |               |                   |             |
| Tensile Stress at Yield, (Type 1A)                      | 77.0          | MPa               | ISO 527-2   |
| Flexural Modulus                                        | 5300          | MPa               | ISO 178     |
| Tensile Strain at Yield, (Type 1A)                      | 2.0           | %                 | ISO 527-2   |
| <b>Impact</b>                                           |               |                   |             |
| Notched Izod Impact Strength                            |               |                   |             |
| (23 °C, Type 1, Notch A)                                | 12            | kJ/m <sup>2</sup> | ISO 180     |
| (-20 °C, Type 1, Notch A)                               | 5.0           | kJ/m <sup>2</sup> | ISO 180     |
| <b>Thermal</b>                                          |               |                   |             |
| Vicat Softening Temperature, (A (10N), 50 °C/h)         | 138           | °C                | ISO 306     |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 148           | °C                | ISO 75-2/A  |
| <b>Electrical</b>                                       |               |                   |             |
| Volume Resistivity                                      | >1.0E+13      | ohm*cm            | IEC 60093   |
| Dielectric Constant                                     | 2.5           |                   | ASTM D150   |
| Comparative Tracking Index (CTI)                        | >650          | V                 | IEC 60112   |
| Surface Resistivity                                     | >1.0E+15      | ohm               | IEC 60093   |
| <b>Flammable</b>                                        |               |                   |             |
| Burning Rate                                            |               |                   |             |
| (2.00 mm)                                               | <100          | mm/min            | FMVSS 302   |
| (2.00 mm)                                               | <100          | mm/min            | ISO 3795    |
| <b>UL Information</b>                                   |               |                   |             |
| Flame Rating                                            |               |                   |             |
| (1.6 mm)                                                | HB            |                   | UL 94       |
| (3.2 mm)                                                | HB            |                   | UL 94       |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 3.0    | hr    |
| Drying Temperature     | 80            | °C    |
| Processing (Melt) Temp | 220 to 260    | °C    |
| Mold Temperature       | 30 to 60      | °C    |