

## Technical Data Sheet

### Percom DCG20 GREY 6-3009

Polypropylene Copolymer

#### Product Description

Percom DCG20 GREY 6-3009 is a Polypropylene Copolymer Glass Fiber, 20% filled material and is typically used in Injection Molding applications. Features include: Copolymer.

|                      |                                      |
|----------------------|--------------------------------------|
| Processing Method    | Injection Molding                    |
| Attribute            | Copolymer                            |
| Application          | Bathroom Accessories; Plumbing Parts |
| Filler/Reinforcement | Glass Fiber, 20%                     |

| Typical Properties                                      | Nominal Value | Units             | Test Method |
|---------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                         |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                        | 2.5           | g/10 min          | ISO 1133    |
| Density                                                 | 1.06          | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                       |               |                   |             |
| Tensile Strain at Break                                 | 2             | %                 | ISO 527-2   |
| Flexural Modulus                                        | 3850          | MPa               | ISO 178     |
| Tensile Stress at Break                                 | 75            | MPa               | ISO 527-2   |
| <b>Impact</b>                                           |               |                   |             |
| Notched Izod Impact Strength, (23 °C, Type 1, Notch A)  | 11            | kJ/m <sup>2</sup> | ISO 180     |
| <b>Hardness</b>                                         |               |                   |             |
| Shore Hardness, (Shore D)                               | 65            |                   | ISO 868     |
| <b>Thermal</b>                                          |               |                   |             |
| Vicat Softening Temperature, (A (10N), 50 °C/h)         | 144           | °C                | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 148           | °C                | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 135           | °C                | ISO 75-2/A  |
| <b>Flammable</b>                                        |               |                   |             |
| Burning Rate                                            |               |                   |             |
| (2.00 mm)                                               | <100          | mm/min            | ISO 3795    |
| (2.00 mm)                                               | <100          | mm/min            | FMVSS 302   |
| <b>UL Information</b>                                   |               |                   |             |
| Flame Rating                                            | 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    |