

## Technical Data Sheet

### Percom MCS12 BLACK 2.0010



Polypropylene Copolymer

#### Product Description

Percom MCS12 BLACK 2.0010 is a Polypropylene Copolymer material and is typically used in Injection Molding applications. Features include: Copolymer.

**Processing Method** Injection Molding

**Attribute** Copolymer

**Appearance** Translucent

**Application** Sanitary Products

| Typical Properties                                      | Nominal Value | Units    | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| <b>Physical</b>                                         |               |          |             |
| Melt Flow Rate, (230 °C/2.16 kg)                        | 12            | g/10 min | ISO 1133    |
| Density                                                 | 0.91          | g/cm³    | ISO 1183    |
| <b>Mechanical</b>                                       |               |          |             |
| Tensile Stress at Yield                                 | 24            | MPa      | ISO 527-2   |
| Tensile Strain at Break                                 | 50            | %        | ISO 527-2   |
| Flexural Modulus                                        | 1180          | MPa      | ISO 178     |
| Tensile Stress at Break                                 | 20            | MPa      | ISO 527-2   |
| <b>Impact</b>                                           |               |          |             |
| Notched Izod Impact Strength, (23 °C, Type 1, Notch A)  | 6.0           | kJ/m²    | ISO 180     |
| <b>Hardness</b>                                         |               |          |             |
| Shore Hardness, (Shore D)                               | 57            |          | ISO 868     |
| <b>Thermal</b>                                          |               |          |             |
| Vicat Softening Temperature, (A (10N), 50 °C/h)         | 130           | °C       | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 80            | °C       | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 43            | °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    |