

# OMIKRON BMS 703 NERO

Polypropylene Copolymer  
TECNOPOL

Message:  
PP COPOLYMER, 30% GLASS FIBERS CHEMICALLY COUPLED, BLACK

| General Information                               |                                                       |                   |                 |
|---------------------------------------------------|-------------------------------------------------------|-------------------|-----------------|
| Filler / Reinforcement                            | Glass fiber reinforced material, 30% filler by weight |                   |                 |
| Features                                          | Copolymer                                             |                   |                 |
|                                                   | Chemical coupling                                     |                   |                 |
| Appearance                                        | Black                                                 |                   |                 |
|                                                   | Available colors                                      |                   |                 |
| Processing Method                                 | Injection molding                                     |                   |                 |
| Physical                                          | Nominal Value                                         | Unit              | Test Method     |
| Density                                           | 1.13                                                  | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         | 8.0                                                   | g/10 min          | ISO 1133        |
| Mechanical                                        | Nominal Value                                         | Unit              | Test Method     |
| Tensile Stress (Yield)                            | 72.0                                                  | MPa               | ISO 527-2       |
| Tensile Strain (Break)                            | 3.0                                                   | %                 | ISO 527-2       |
| Flexural Modulus                                  | 5200                                                  | MPa               | ISO 178         |
| Impact                                            | Nominal Value                                         | Unit              | Test Method     |
| Notched Izod Impact (23°C)                        | 12                                                    | kJ/m <sup>2</sup> | ISO 180         |
| Aging                                             | Nominal Value                                         | Unit              | Test Method     |
| Accelerated Aging (150°C)                         | 6.3                                                   | day               | Internal method |
| Thermal                                           | Nominal Value                                         | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 145                                                   | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                       | 112                                                   | °C                | ISO 306/B       |
| Flammability                                      | Nominal Value                                         | Unit              | Test Method     |
| Burning Rate                                      | < 100                                                 | mm/min            | FMVSS 302       |
| Flame Rating                                      | HB                                                    |                   | UL 94           |
| Injection                                         | Nominal Value                                         | Unit              |                 |
| Drying Temperature                                | 90.0                                                  | °C                |                 |
| Drying Time                                       | 2.0                                                   | hr                |                 |
| Rear Temperature                                  | 220 - 260                                             | °C                |                 |
| Middle Temperature                                | 220 - 260                                             | °C                |                 |
| Front Temperature                                 | 220 - 260                                             | °C                |                 |
| Mold Temperature                                  | 40.0 - 60.0                                           | °C                |                 |

|                    |              |     |
|--------------------|--------------|-----|
| Injection Pressure | 9.00 - 11.0  | MPa |
| Injection Rate     | Moderate     |     |
| Back Pressure      | 0.500 - 1.00 | MPa |

#### Injection instructions

Post Pressure: 60 - 80 bar

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