

# Edgetek™ QT-20MN/000 natural HI

Syndiotactic Polystyrene

PolyOne Corporation

Message:

Edgetek™ QT-20MN/000 natural HI is a Syndiotactic Polystyrene (SPS) product filled with mineral\inorganic. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

| General Information                                                     |                    |                   |             |
|-------------------------------------------------------------------------|--------------------|-------------------|-------------|
| Filler / Reinforcement                                                  | Mineral\Inorganic  |                   |             |
| Appearance                                                              | Natural Color      |                   |             |
| Forms                                                                   | Pellets            |                   |             |
| Physical                                                                | Nominal Value      | Unit              | Test Method |
| Density (23°C)                                                          | 1.20               | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                                | 10                 | g/10 min          | ISO 1133    |
| Molding Shrinkage - Flow <sup>1</sup> (23°C, 4.00 mm, Injection Molded) | < 1.3              | %                 |             |
| Mechanical                                                              | Nominal Value      | Unit              | Test Method |
| Tensile Modulus <sup>2</sup> (23°C)                                     | 4200               | MPa               | ISO 527     |
| Tensile Strength <sup>3</sup> (Break, 23°C)                             | 50.0               | MPa               | ISO 527     |
| Tensile Elongation <sup>4</sup> (Break, 23°C)                           | 1.5                | %                 | ISO 527     |
| Impact                                                                  | Nominal Value      | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)                                   | 13                 | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength (23°C)                                 | 10                 | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                                                 | Nominal Value      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)        | 230                | °C                | ISO 75-2/A  |
| Flammability                                                            | Nominal Value      |                   | Test Method |
| Flame Rating                                                            | HB                 |                   | UL 94       |
| Injection                                                               | Nominal Value      | Unit              |             |
| Drying Temperature                                                      | 80.0               | °C                |             |
| Drying Time                                                             | 2.0                | hr                |             |
| Processing (Melt) Temp                                                  | 270 to 320         | °C                |             |
| Mold Temperature                                                        | 80.0 to 150        | °C                |             |
| NOTE                                                                    |                    |                   |             |
| 1.                                                                      | Bergmann Method    |                   |             |
| 2.                                                                      | Type I, 5.0 mm/min |                   |             |
| 3.                                                                      | Type I, 5.0 mm/min |                   |             |
| 4.                                                                      | Type I, 5.0 mm/min |                   |             |

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