

# Niplene C20

Polypropylene Homopolymer

Soredi S.p.a.

Message:

Polypropylene homopolymer, filled with 20% calcium carbonate, for the injection moulding of aesthetical items.

| General Information                                     |                                        |                   |                         |
|---------------------------------------------------------|----------------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Calcium Carbonate,20% Filler by Weight |                   |                         |
| Features                                                | Good Surface Finish                    |                   |                         |
|                                                         | Homopolymer                            |                   |                         |
| Forms                                                   | Pellets                                |                   |                         |
| Processing Method                                       | Injection Molding                      |                   |                         |
| Physical                                                | Nominal Value                          | Unit              | Test Method             |
| Specific Gravity                                        | 1.05                                   | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)               | 10                                     | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 0.80 to 1.4                            | %                 | ASTM D955               |
| Hardness                                                | Nominal Value                          | Unit              | Test Method             |
| Rockwell Hardness (R-Scale)                             | 100                                    |                   | ASTM D785               |
| Mechanical                                              | Nominal Value                          | Unit              | Test Method             |
| Tensile Strength <sup>1</sup> (Yield)                   | 20.0                                   | MPa               | ASTM D638               |
| Tensile Elongation <sup>2</sup> (Break)                 | 60                                     | %                 | ASTM D638               |
| Flexural Modulus <sup>3</sup>                           | 2400                                   | MPa               | ASTM D790               |
| Flexural Strength <sup>4</sup> (Break)                  | 40.0                                   | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value                          | Unit              | Test Method             |
| Notched Izod Impact (23°C, 3.20 mm)                     | 30                                     | J/m               | ASTM D256               |
| Thermal                                                 | Nominal Value                          | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 60.0                                   | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 100                                    | °C                | ASTM D1525 <sup>5</sup> |
| NOTE                                                    |                                        |                   |                         |
| 1.                                                      | 50 mm/min                              |                   |                         |
| 2.                                                      | 50 mm/min                              |                   |                         |
| 3.                                                      | 1.3 mm/min                             |                   |                         |
| 4.                                                      | 1.3 mm/min                             |                   |                         |
| 5.                                                      | Rate B (120°C/h), Loading 2 (50 N)     |                   |                         |

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