

# Niretan B 27 N

Polyamide 6  
Soredi S.p.a.

Message:  
Polyamide 6 coloured in bulk, high flow, for injection moulding, with short cycles and easy demoulding

| General Information                                     |            |                             |                   |             |
|---------------------------------------------------------|------------|-----------------------------|-------------------|-------------|
| Features                                                |            | Fast molding cycle          |                   |             |
|                                                         |            | Good liquidity              |                   |             |
|                                                         |            | Good demoulding performance |                   |             |
| Forms                                                   |            | Particle                    |                   |             |
| Processing Method                                       |            | Injection molding           |                   |             |
| Physical                                                | Dry        | Conditioned                 | Unit              | Test Method |
| Specific Gravity                                        | 1.14       | --                          | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.80 - 2.0 | --                          | %                 | ASTM D955   |
| Water Absorption                                        |            |                             |                   | ASTM D570   |
| 23°C, 24 hr                                             | 9.0        | 10                          | %                 | ASTM D570   |
| Equilibrium, 23°C, 50% RH                               | 3.0        | --                          | %                 | ASTM D570   |
| Hardness                                                | Dry        | Conditioned                 | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                             | 120        | 80                          |                   | ASTM D785   |
| Mechanical                                              | Dry        | Conditioned                 | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield)                   | 80.0       | 45.0                        | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                 | 50         | 100                         | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>                           | 2900       | 90.0                        | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (Break)                  | 110        | 40.0                        | MPa               | ASTM D790   |
| Impact                                                  | Dry        | Conditioned                 | Unit              | Test Method |
| Notched Izod Impact                                     |            |                             |                   | ASTM D256   |
| -20°C, 3.20 mm                                          | 40         | 200                         | J/m               | ASTM D256   |
| 23°C, 3.20 mm                                           | 45         | 400                         | J/m               | ASTM D256   |
| Thermal                                                 | Dry        | Conditioned                 | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 60.0       | --                          | °C                | ASTM D648   |
| Peak Crystallization Temperature (DSC)                  | 220        | --                          | °C                | ASTM D3418  |
| CLTE - Flow                                             | 1.0E-5     | --                          | cm/cm/°C          | ISO 11359-2 |
| Electrical                                              | Dry        | Conditioned                 | Unit              | Test Method |
| Surface Resistivity                                     | 1.0E+14    | 1.0E+13                     | ohms              | IEC 60093   |
| Volume Resistivity                                      | 1.0E+15    | 1.0E+12                     | ohms · cm         | IEC 60093   |

|                                          |       |             |       |                |
|------------------------------------------|-------|-------------|-------|----------------|
| Dielectric Strength (1.00 mm)            | 30    | 35          | kV/mm | IEC 60243-1    |
| Relative Permittivity (1 MHz)            | 3.50  | 4.00        |       | IEC 60250      |
| Dissipation Factor (1 MHz)               | 0.020 | 0.10        |       | IEC 60250      |
| Flammability                             | Dry   | Conditioned | Unit  | Test Method    |
| Flame Rating                             |       |             |       | UL 94          |
| 1.60 mm                                  | V-2   | --          |       | UL 94          |
| 3.20 mm                                  | V-2   | --          |       | UL 94          |
| Glow Wire Ignition Temperature (2.00 mm) | 750   | --          | °C    | IEC 60695-2-13 |

#### Additional Information

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Tensile Elongation @ Break, ASTM D638, 50 mm/min: >100%Notched Izod Impact, ASTM D256, 23°C, 3.2 mm: >400 J/mNotched Izod Impact, ASTM D256, -20°C, 3.2 mm: >200 J/m

#### NOTE

1. 50 mm/min
2. 50 mm/min
3. 1.3 mm/min
4. 1.3 mm/min

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