

# Ecolac F17 NERO

Acrylonitrile Butadiene Styrene

Soredi S.p.a.

## Message:

ABS reinforced with 17% glass fibre. Industrial quality

| General Information                                                 |                                                       |                   |                         |
|---------------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                              | Glass fiber reinforced material, 17% filler by weight |                   |                         |
| Uses                                                                | Industrial application                                |                   |                         |
| Forms                                                               | Particle                                              |                   |                         |
| Physical                                                            | Nominal Value                                         | Unit              | Test Method             |
| Specific Gravity                                                    | 1.17                                                  | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)                           | 10                                                    | g/10 min          | ASTM D1238              |
| Molding Shrinkage                                                   |                                                       |                   | ASTM D955               |
| Flow                                                                | 0.20 - 0.40                                           | %                 | ASTM D955               |
| Transverse flow                                                     | 0.30 - 0.50                                           | %                 | ASTM D955               |
| Water Absorption (Equilibrium, 23°C, 50% RH)                        | 0.20                                                  | %                 | ISO 62                  |
| Hardness                                                            | Nominal Value                                         | Unit              | Test Method             |
| Rockwell Hardness (R-Scale)                                         | 110                                                   |                   | ASTM D785               |
| Mechanical                                                          | Nominal Value                                         | Unit              | Test Method             |
| Tensile Strength <sup>1</sup> (Break)                               | 55.0                                                  | MPa               | ASTM D638               |
| Tensile Elongation <sup>2</sup> (Break)                             | 2.0                                                   | %                 | ASTM D638               |
| Flexural Modulus <sup>3</sup>                                       | 4500                                                  | MPa               | ASTM D790               |
| Impact                                                              | Nominal Value                                         | Unit              | Test Method             |
| Notched Izod Impact (23°C, 3.20 mm)                                 | 50                                                    | J/m               | ASTM D256               |
| Thermal                                                             | Nominal Value                                         | Unit              | Test Method             |
| Vicat Softening Temperature                                         | 100                                                   | °C                | ASTM D1525 <sup>4</sup> |
| Flammability                                                        | Nominal Value                                         | Unit              | Test Method             |
| Flame Rating                                                        |                                                       |                   | UL 94                   |
| 1.60 mm                                                             | HB                                                    |                   | UL 94                   |
| 3.20 mm                                                             | HB                                                    |                   | UL 94                   |
| Glow Wire Ignition Temperature (2.00 mm)                            | 650                                                   | °C                | IEC 60695-2-13          |
| Additional Information                                              |                                                       |                   |                         |
| Melt Mass- Flow Rate (MFR), ASTM D1238, 220°C/10kg: 5 to 15 g/10min |                                                       |                   |                         |
| NOTE                                                                |                                                       |                   |                         |
| 1.                                                                  | 50 mm/min                                             |                   |                         |
| 2.                                                                  | 50 mm/min                                             |                   |                         |
| 3.                                                                  | 1.3 mm/min                                            |                   |                         |
| 4.                                                                  | 标准 B (120°C/h), 载荷2 (50N)                             |                   |                         |

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