

# Nilac TR

Acrylonitrile Butadiene Styrene

Soredi S.p.a.

## Message:

ABS of very high thermic resistance, for the injection moulding of items used in the automotive industry as well as in the household appliances market.

| General Information                                     |                         |                   |                         |
|---------------------------------------------------------|-------------------------|-------------------|-------------------------|
| Features                                                | Copolymer               |                   |                         |
| Uses                                                    | Appliances              |                   |                         |
|                                                         | Automotive Applications |                   |                         |
| 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) (220°C/10.0 kg)               | 7.0                     | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 0.40 to 0.70            | %                 | ASTM D955               |
| Water Absorption (Equilibrium, 23°C, 50% RH)            | 0.30                    | %                 | ISO 62                  |
| Hardness                                                | Nominal Value           | Unit              | Test Method             |
| Rockwell Hardness (R-Scale)                             | 112                     |                   | ASTM D785               |
| Mechanical                                              | Nominal Value           | Unit              | Test Method             |
| Tensile Strength <sup>1</sup> (Yield)                   | 50.0                    | MPa               | ASTM D638               |
| Tensile Elongation <sup>2</sup> (Break)                 | 20                      | %                 | ASTM D638               |
| Flexural Modulus <sup>3</sup>                           | 2500                    | MPa               | ASTM D790               |
| Flexural Strength <sup>4</sup> (Break)                  | 70.0                    | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value           | Unit              | Test Method             |
| Notched Izod Impact                                     |                         |                   | ASTM D256               |
| -20°C, 3.20 mm                                          | 90                      | J/m               |                         |
| 23°C, 3.20 mm                                           | 220                     | J/m               |                         |
| Thermal                                                 | Nominal Value           | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 100                     | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 109                     | °C                | ASTM D1525 <sup>5</sup> |
| CLTE - Flow (23 to 55°C)                                | 8.0E-5                  | cm/cm/°C          | ISO 11359-2             |
| Electrical                                              | Nominal Value           | Unit              | Test Method             |
| Surface Resistivity                                     | 1.0E+15                 | ohms              | IEC 60093               |
| Volume Resistivity                                      | 1.0E+15                 | ohms · cm         | IEC 60093               |
| Electric Strength (1.00 mm)                             | 30                      | kV/mm             | IEC 60243-1             |
| Relative Permittivity (1 MHz)                           | 2.90                    |                   | IEC 60250               |

| Dissipation Factor (1 MHz)     | 0.010                              |      | IEC 60250      |
|--------------------------------|------------------------------------|------|----------------|
| Flammability                   | Nominal Value                      | Unit | Test Method    |
| Flame Rating                   |                                    |      | UL 94          |
| 1.60 mm                        | HB                                 |      |                |
| 3.20 mm                        | HB                                 |      |                |
| Glow Wire Ignition Temperature | 650                                | °C   | IEC 60695-2-13 |
| 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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