

# Niform 270

Acetal (POM) Copolymer

Soredi S.p.a.

## Message:

Acetalic copolymer with high MFI, suitable for the injection moulding of items having low thickness.

| General Information                                     |                     |                   |                         |
|---------------------------------------------------------|---------------------|-------------------|-------------------------|
| Features                                                | Copolymer           |                   |                         |
| Uses                                                    | Thin wall packaging |                   |                         |
| Forms                                                   | Particle            |                   |                         |
| Processing Method                                       | Injection molding   |                   |                         |
| Physical                                                | Nominal Value       | Unit              | Test Method             |
| Specific Gravity                                        | 1.41                | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)               | 27                  | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 2.4 - 2.9           | %                 | ASTM D955               |
| Water Absorption (Equilibrium, 23°C, 50% RH)            | 0.40                | %                 | ISO 62                  |
| Hardness                                                | Nominal Value       | Unit              | Test Method             |
|                                                         | 80                  |                   |                         |
| Rockwell Hardness (R-Scale)                             | 114                 |                   | ASTM D785               |
| Mechanical                                              | Nominal Value       | Unit              | Test Method             |
| Tensile Strength <sup>1</sup> (Yield)                   | 64.0                | MPa               | ASTM D638               |
| Tensile Elongation <sup>2</sup> (Break)                 | 30                  | %                 | ASTM D638               |
| Flexural Modulus <sup>3</sup>                           | 2650                | MPa               | ASTM D790               |
| Flexural Strength <sup>4</sup> (Break)                  | 83.0                | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value       | Unit              | Test Method             |
| Notched Izod Impact                                     |                     |                   | ASTM D256               |
| -20°C, 3.20 mm                                          | 50                  | J/m               | ASTM D256               |
| 23°C, 3.20 mm                                           | 65                  | J/m               | ASTM D256               |
| Thermal                                                 | Nominal Value       | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 115                 | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 150                 | °C                | ASTM D1525 <sup>5</sup> |
| CLTE - Flow (23 to 55°C)                                | 1.1E-4              | cm/cm/°C          | ISO 11359-2             |
| Electrical                                              | Nominal Value       | Unit              | Test Method             |
| Surface Resistivity                                     | 1.0E+15             | ohms              | IEC 60093               |
| Volume Resistivity                                      | 1.0E+14             | ohms · cm         | IEC 60093               |
| Dielectric Strength (1.00 mm)                           | 19                  | kV/mm             | IEC 60243-1             |

| Relative Permittivity (1 MHz)         | 3.70                      |      | IEC 60250   |
|---------------------------------------|---------------------------|------|-------------|
| Dissipation Factor (1 MHz)            | 0.020                     |      | IEC 60250   |
| Flammability                          | Nominal Value             | Unit | Test Method |
| Flame Rating                          |                           |      | UL 94       |
| 1.60 mm                               | HB                        |      | UL 94       |
| 3.20 mm                               | HB                        |      | UL 94       |
| Additional Information                |                           |      |             |
| Volume Resistivity, IEC 60093: > 1E14 |                           |      |             |
| NOTE                                  |                           |      |             |
| 1.                                    | 5.0 mm/min                |      |             |
| 2.                                    | 5.0 mm/min                |      |             |
| 3.                                    | 1.3 mm/min                |      |             |
| 4.                                    | 1.3 mm/min                |      |             |
| 5.                                    | 标准 B (120°C/h), 载荷2 (50N) |      |             |

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