

Niplene F10 AGR

- Polypropylene homopolymer, reinforced with 10 % glass fiber chemically bounded. Heat stabilized.
- Grade developed for injection moulding, characterized by a good balance impact/elastic modulus.

| | Properties | Test condition | Method | Unit | Value |
|-----------------|-----------------------------------|------------------|-------------|----------------------------------|------------------|
| Rheological | Melt Flow Index | 230 °C / 2,16 Kg | ASTM D1238 | g/10min | 10 |
| Mechanical | Flexural Maximum Stress | 1,3 mm/min | ASTM D790 | MPa | 80 |
| | Flexural Elastic Modulus | 1,3 mm/min | ASTM D790 | MPa | 2600 |
| | Izod Notched Impact Strength | 23°C/3mm | ASTM D256 | J/m | 75 |
| | Rockwell Hardness | | ASTM D785 | R-scale | 110 |
| | Elongation | 50 mm/min | ASTM D638 | % | 4,5 |
| | Tensile Modulus | 5 mm/min | ASTM D638 | MPa | 3150 |
| | Tensile Stress at Break | 5 mm/min | ASTM D638 | MPa | 52 |
| Thermal | Vicat Softening Temperature | 49N / 120°C/h | ASTM D 1525 | °C | 120 |
| | Heat Distortion Temperature H.D.T | 1.82 MPa | ASTM D648 | °C | 140 |
| | Linear Expansion Coefficient | 23°C/55°C | ISO 11359-2 | 10 ⁻⁵ K ⁻¹ | 4 |
| Flame Behaviour | Glow Wire Temperature (G.W.T) | S=2.0 mm | IEC 695-2-1 | °C | 650 |
| | UL 94 Rating | S=1.6 mm | UL 94 | class | HB |
| | UL 94 Rating | S=3.2 mm | UL 94 | class | HB |
| Electrical | Relative Permittivity | 1 Mhz - dry | IEC 60250 | - | 2,7 |
| | Dissipation Factor | 1 Mhz - dry | IEC 60250 | - | 0,001 |
| | Dielectric Strength | S=1 mm | IEC 60243-1 | KV/mm | 60 |
| | Surface Resistivity | dry | IEC 60093 | Ω | 10 ¹⁴ |



| | Properties | Test condition | Method | Unit | Value |
|---------|---------------------------------|------------------|-----------|-------------------|------------------|
| | | | | | 10 ¹⁵ |
| Various | Density | | ASTM D792 | g/cm ³ | 0,97 |
| | Humidity Content at Equilibrium | 23°C / 50 % U.R. | ISO 62 | % | 0,2 |
| | Moulding Shrinkage | parallel | - | % | 0,4-0,8 |
| | Moulding Shrinkage | transversal | - | % | 0,5-1,0 |

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