

Niplene F1T5 AGR

| | Properties | Test condition | Method | Unit | Value |
|-----------------|-----------------------------------|------------------|-------------|-------------------|------------------|
| Rheological | Melt Flow Index | 260°C / 5 kg | ASTM D1238 | g/10min | 10 |
| Mechanical | Tensile Stress at Break | 5 mm/min | ASTM D638 | MPa | 40 |
| | Flexural Maximum Stress | 1,3 mm/min | ASTM D790 | MPa | 65 |
| | Flexural Elastic Modulus | 1,3 mm/min | ASTM D790 | MPa | 3500 |
| | Izod Notched Impact Strength | 23°C/3mm | ASTM D256 | J/m | 35 |
| | Rockwell Hardness | | ASTM D785 | R-scale | 108 |
| | Elongation | 50 mm/min | ASTM D638 | % | 9 |
| | Tensile Modulus | 5 mm/min | ASTM D638 | MPa | 4100 |
| Thermal | Vicat Softening Temperature | 49N / 120°C/h | ASTM D 1525 | °C | 113 |
| | Heat Distortion Temperature H.D.T | 1.82 MPa | ASTM D648 | °C | 98 |
| 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 | □ | 10 ¹⁴ |
| | Volume Resistivity | dry | IEC 60093 | □ □ cm | 10 ¹⁵ |
| Various | Density | | ASTM D792 | g/cm ³ | 1,14 |
| | Humidity Content at Equilibrium | 23°C / 50 % U.R. | ISO 62 | % | 0,13 |
| | Moulding Shrinkage | parallel | - | % | 0,4-0,9 |