# Niplene F30 AGR HF

Polypropylene homopolymer, reinforced with 30% glass fibre chemically coupled to the polymer matrix

| | Properties | Test condition | Method | Unit | Value |
|---|---|---|---|---|---|
| Rheological | Melt Flow Index | 230 °C / 2,16 Kg | ASTM D1238 | g/10min | 10 |
| Mechanical | Tensile Stress at Break | 5 mm/min | ASTM D638 | MPa | 90 |
| | Flexural Maximum Stress | 1,3 mm/min | ASTM D790 | MPa | 140 |
| | Flexural Elastic Modulus | 1,3 mm/min | ASTM D790 | MPa | 6000 |
| | Rockwell Hardness | | ASTM D785 | R-scale | 113 |
| | Izod Notched Impact Strength | 23°C/3,2 mm | ASTM D256 | J/m | 130 |
| | Izod Notched Impact Strength | -20°C/3,2 mm | ASTM D256 | J/m | 80 |
| | Elongation | 50 mm/min | ASTM D638 | % | 3,3 |
| Thermal | Vicat Softening Temperature | 49N / 120°C/h | ASTM D 1525 | °C | 144 |
| | Heat Distortion Temperature H.D.T | 1.82 MPa | ASTM D648 | °C | 153 |
| | Linear Expansion Coefficient | 23°C/55°C | ISO 11359-2 | 10∧-5 K∧-1 | 3 |
| 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 Permettivity | 1 Mhz – dry | IEC 60250 | - | 2,7 |
| | Dissipation Factor | 1 Mhz – dry | IEC 60250 | - | 0 |
| | 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 |

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| | Properties | Test condition | Method | Unit | Value |
|---|---|---|---|---|---|
| | | | | | 1,12 |
| | Humidity Content at Equilibrium | 23°C / 50 % U.R. | ISO 62 | % | 0,1 |
| | Moulding Shrinkage | parallel | - | % | 0,2-0,6 |
| | Moulding Shrinkage | transversal | - | % | 0,4-0,8 |

All values are approximate values and are given after the best knowledge and conscience. Hence, because of variable processing terms or processing procedures an obligation cannot be derived from it.

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