

TECNOPRENE 3K3F NAT005 W3K3FNAT005P

Glass Fiber reinforced Polypropylene (PP/GF)

| | |
|------------------------------|----------------------------------------------------------------------------|
| Description | Polypropylene copolymer reinforced with 15% chemically coupled glass fiber |
| Color | Natural |
| Norm compliance | Compliant with Regulation (EC) No 1907/2006 (REACH) |
| Processing technology | Injection moulding |

| Physical properties | Typical value (SI) | Typical value (EN) | Test method |
|----------------------------------------------|--------------------------|-------------------------------|---------------|
| Melt Flow Index 230°C/2,16kg | 7 g/10min | 7 g/10min | ASTM D1238 |
| Density | 1 g/cm ³ | 1 g/cm ³ | ASTM D792 |
| Ash Content | 15 % | 15 % | INTERNAL |
| Mold Shrinkage | 1 % | 1 % | INTERNAL |
| Water absorption (24 h/23°C) | 0.02 % | 0.02 % | ASTM D570 |
| Mechanical properties | Typical value (SI) | Typical value (EN) | Test method |
| Tensile strength at break | 55 MPa | 7975 psi | ASTM D638 |
| Flexural Modulus | 3100 MPa | 449500 psi | ASTM D790 |
| Flexural Strength | 80 MPa | 11600 psi | ASTM D790 |
| IZOD impact strength, notched (23 °C) | 155 J/m | 2.899 ft-lb/inch | ASTM D256 |
| Charpy impact strength, notched (23 °C) | 14 kJ/m ² | 6.657 ft-lb/inch ² | ISO 179 - 1eA |
| IZOD impact strength, notched (-20°C) | 125 J/m | 2.338 ft-lb/inch | ASTM D256 |
| Thermal properties | Typical value (SI) | Typical value (EN) | Test method |
| HDT Heat Deflection Temperature A (1,82 MPa) | 130 °C | 266 F° | ASTM D648 |
| Coefficient of linear thermal expansion | 6.5 10 ⁻⁵ /K | 6.5 10 ⁻⁵ /K | ASTM D696-3 |
| Flammability | Typical value (SI) | Typical value (EN) | Test method |
| Flame Rating (3,2 mm) | HB Class | HB Class | UL94 |
| Electrical properties | Typical value (SI) | Typical value (EN) | Test method |
| CTI Comparative tracking index | 650 VOLT | 650 VOLT | IEC 60112 |
| Dielectric constant, 1kHz | 2.3 | 2.3 | ASTM D150 |
| Surface resistivity | 10 ^{^15} OHM/sq | 10 ^{^15} OHM/sq | ASTM D257 |



| Processing conditions | Typical value (SI) | Typical value (EN) |
|--------------------------------------|--------------------|--------------------|
| Drying | 3h/90 °C | 3h/194 °F |
| Injection moulding | Typical value (SI) | Typical value (EN) |
| Recommended processing temperatures: | | |
| 1st Zone | 210 °C | 410 °F |
| 2nd Zone | 240 °C | 464 °F |
| 3rd Zone | 250 °C | 482 °F |
| Mould | 50-70 °C | 122-158 °F |

Storage

This product should be stored in a covered facility and kept away from moisture and heat.

Disclaimer

The figures reported in this Technical Data Sheet are based on tests and analyses carried out in SO.F.TER. laboratories on injection-moulded specimens. These figures indicate the typical material properties and are not to be considered a specification. The user shall always carry out his own tests and analyses in order to verify the suitability of the material for the specific application. Test carried out at 23°C unless otherwise stated.