

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.