



## PIBITER NRV30 NAT001 WNRV30NAT001P

### Polybutylene Terephthalate Compound (PBT)

<b>Description</b>	30% glass fiber reinforced PBT grade
<b>Color</b>	Natural
<b>Norm compliance</b>	Compliant with Regulation (EC) No 1907/2006 (REACH)
<b>Certifications</b>	UL product certified - File E187982
<b>Processing technology</b>	Injection moulding

Physical properties	Typical value	Units	Test Method
Water absorption (24 h/23°C)	0.04	%	ASTM D570
MFI Melt Flow Index 250°C/2.16kg	14	g/10min	ASTM D1238
Ash Content	30	%	INTERNAL
Density	1.52	g/cm <sup>3</sup>	ASTM D792
Humidity absorption (23°C /50% RH)	0.25	%	ISO 62
Mold Shrinkage	0.35	%	INTERNAL
Mechanical properties	Typical value	Units	Test Method
Tensile strength at break	130	MPa	ASTM D638
Tensile elongation at break	2.5	%	ASTM D638
Tensile Modulus	9800	MPa	ASTM D638
Flexural Modulus	9000	MPa	ASTM D790
IZOD impact strength, notched (23 °C)	85	J/m	ASTM D256
Flexural Strength	210	MPa	ASTM D790
Thermal properties	Typical value	Units	Test Method
Vicat Softening Temperature B (50°C/h at 50 N)	215	°C	ASTM D1525
HDT Heat Deflection Temperature B (0,455 MPa)	220	°C	ASTM D648
HDT Heat Deflection Temperature A (1,82 MPa)	210	°C	ASTM D648
Coefficient of linear thermal expansion	2.5	°C-1	ASTM D696-3
Flammability	Typical value	Units	Test Method
Flame Rating (0,75 mm)	HB	Class	UL94



Electrical properties	Typical value	Units	Test Method
CTI Comparative tracking index	350	VOLT	IEC 60112
Dielectric constant, 1kHz	3.8	-	ASTM D150
Dielectric strength, 1.6mm	22	kV/mm	ASTM D149
Dissipation factor, 1kHz	0.003	-	ASTM D150
Volume resistivity, 23°C	10 <sup>15</sup>	Ohm.cm	ASTM D257
Surface resistivity	10 <sup>14</sup>	OHM/sq	ASTM D257

Injection moulding	Typical value
Recommended processing temperatures:	
1st Zone	235°C
2nd Zone	250°C
3rd Zone	260°C
Mould	70°-100°C

### 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.

### For technical or commercial information:

#### EUROPE

SO.F.TER. SPA, Via Mastro Giorgio 1, 47122 Forlì, Italy, tel +39 0543 790411  
info.it@softergroup.com

#### USA

SO.F.TER. USA, 400 Innovative Way, Lebanon, TN 37090, US, tel +1 844 657 6383 (THINKSOFTER)  
info.us@softergroup.com

#### BRAZIL

SO.F.TER. BRASIL, Av. Edgar Hoffmeister, 275, CEP 93700-000, Campo Bom, RS, Brazil, tel +55 51 2123 2610  
info.br@softergroup.com

#### MEXICO

SO.F.TER MEXICO, Circuito Mexiamora Norte 345, Puerto Interior, Silao, G.to, Mexico 36275, tel +52 472 722 6923