

## Technoter A-GF 30-FR

A 30% glass fiber, fire retardant polybutylene terephthalate.

Designed for injection moulding and extrusion of various items and parts for construction, electrical tools, machine engineering, household appliances, transportation, camping equipment etc.

Properties	Test method	Unit	Typical value
<b>MISCELLANEOUS</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1680
Tensile Strength	ISO 527-1	MPa	135
Strain at Break	ISO 527-1	%	3
Flexural Stress at maximum load	ISO 178	MPa	214
Tensile Modulus	ISO 178	MPa	9500
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	44
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	40
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	9
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	8
<b>THERMAL</b>			
Melting Point	ISO 11357	°C	222
Deflection Temperature at 0.45 MPa load	ISO 75	°C	210
Deflection Temperature at 1.8 MPa load	ISO 75	°C	205
Coefficient of linear thermal expansion	ISO 11359-2	(10 <sup>-5</sup> )K <sup>-1</sup>	0.3
<b>PROCESSING</b>			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	27
Melt Temperature		°C	260
Mold Temperature		°C	90
Moulding Shrinkage, parallel	ISO 294-4	%	0.1-0.3
Moulding Shrinkage, normal	ISO 294-4	%	0.8-1.1
<b>ELECTROPHYSICAL</b>			
Electrical strength	IEC 60243	kV/mm	26
Specific volume resistivity	IEC 60093	Ω·m	1E14

*Comment:*

*All processing parameters as well as information on shrinkage specimen should be requested from the manufacturer.*

*If stored in a dry warehouse – dehydration not required*

*Date of issue 02.12.2019*

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