

# performanceplastics

## Grilon BGZ-30/2

Reinforced, heat stabilised, impact modified nylon 6 injection moulding grade with 30% glass fibres.

Property	Test Method	Unit		Value
<b>Mechanical</b>				
Density	ISO 1183	g/cm <sup>3</sup>	dry	1.3
Tensile E Modulus	ISO 527	MPa	dry	8500
	ISO 527	MPa	cond	5500
Tensile strength at yield	ISO 527	MPa	dry	160
	ISO 527	MPa	cond	105
Elongation at yield	ISO 527	%	dry	3
	ISO 527	%	cond	5
Tensile strength at break	ISO 527	MPa	dry	155
	ISO 527	MPa	cond	105
Elongation at break	ISO 527	%	dry	4
	ISO 527	%	cond	8
Charpy notched impact 23°C	ISO 179/1eA	KJ/m <sup>2</sup>	dry	15
	ISO 179/1eA	KJ/m <sup>2</sup>	cond	25
Charpy notched impact -30°C	ISO 179/1eA	KJ/m <sup>2</sup>	dry	11
	ISO 179/1eA	KJ/m <sup>2</sup>	cond	12
<b>Thermal</b>				
Melting Point	ISO 11357	°C	dry	222
HDT A (1.8 MPa)	ISO 75	°C	dry	200
Coefficient of linear thermal expansion (long) 23 - 80°C	ISO 11359	10 <sup>-4</sup> /K	dry	0.2
Coefficient of linear thermal expansion (trans) 23 - 80°C	ISO 11359	10 <sup>-4</sup> /K	dry	1.2
Maximum usage Temp. (long term)	EMS	°C	dry	90-120
Maximum usage Temp. (short term)	EMS	°C	dry	160
<b>Electrical</b>				
Comparative tracking index (CTI)	IEC 112		dry	600
	IEC 112		cond	550
<b>Behavioural</b>				
Flammability (0.8mm)	UL94	Rating		HB
Water absorption	ISO 62	%	(23°C/sat)	7
Moisture absorption	ISO 62	%	(23°C/50% RH)	2
<b>Mould Shrinkage</b>				
Linear	ISO 294	%	dry	0.1
Transverse	ISO 294	%	dry	0.6

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products. Prospective users should determine the suitability of materials before adopting them on a commercial scale.

### Features

- Good Impact Strength
- High Stiffness
- Easy Processing

Performance Plastics Ltd  
 Unit 3, Brock House, Grigg Lane, Brockenhurst, SO42 7RE  
 Tel. 01590 622 666  
 Fax 01590 622 629  
 Website [www.performance-plastics.co.uk](http://www.performance-plastics.co.uk)  
 E-mail [info@performance-plastics.co.uk](mailto:info@performance-plastics.co.uk)

