

**Staramide BG3**

PA6-GF15

Eurostar Engineering Plastics

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>5800</b>	MPa	ISO 527
Stress at break	<b>125</b>	MPa	ISO 527
Strain at break	<b>3.5</b>	%	ISO 527
Flexural modulus, 23°C	<b>4750</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>45</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Izod impact strength, +23°C	<b>40</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	<b>6</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>L 110</b>	-	ISO 2039-2

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>190</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>212</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>50</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>100</b>	E-6/K	ISO 11359-1/-2
Oxygen index	<b>24</b>	%	ISO 4589-1/-2
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>0.75</b>	mm	-

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	<b>3.4</b>	-	IEC 62631-2-1
Dissipation factor, 1MHz	<b>160</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
Electric strength	<b>10</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>550</b>	-	IEC 60112

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>8</b>	%	Sim. to ISO 62
Density	<b>1230</b>	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Processing**

Injection Molding