

**Grilon XE 5052 (BGZ-15 FC)**

PA6-GF15

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA6-HI, MHR, 14-050N, GF15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>5300 / 2800</b>	MPa	ISO 527-1/-2
Stress at break	<b>110 / 65</b>	MPa	ISO 527-1/-2
Strain at break	<b>5 / 15</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>75 / 90</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>70 / 75</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>20 / 25</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>11 / 12</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>222 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>190 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	<b>55 / -</b>	°C	ISO 75-1/-2
Burning Behav. at thickness h	<b>HB / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>90 - 120</b>	°C	EMS
Max. usage temperature (short term)	<b>160</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>1E12 / 1E11</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E12</b>	Ohm	IEC 60093
Electric strength	<b>40 / 35</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>- / 600</b>	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>8 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>2 / -</b>	%	Sim. to ISO 62
Density	<b>1180 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.2 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>0.7 / -</b>	%	ISO 294-4, 2577

**Characteristics**
**Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

High impact or impact modified

**Industry & Consumer goods**

Housewares, Mechanical Engineering, Sports &amp; Leisure, Tools &amp; Accessories

**Product Attributes**

Improved flowability and demoulding

**Automotive**

Automotive electr. and electronics, lighting, Powertrain and Chassis , Interior

**Electricals & Electronics**

Electrical appliances, Electrical equipment, Connectors

