

**Grilon EBV-15H black 9697**

PA6-GF15

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:  
PA 6-HI, BH, 27-060, GF15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>5600 / 2700</b>	MPa	ISO 527-1/-2
Stress at break	<b>110 / 65</b>	MPa	ISO 527-1/-2
Strain at break	<b>5 / 25</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>80 / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>80 / 80</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>15 / 30</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>6 / 8</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	<b>145 / 70</b>	MPa	ISO 2039-1

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>165 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	<b>50 / -</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>120 / -</b>	E-6/K	ISO 11359-1/-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>100 - 120</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>180</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>1E11 / 1E9</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E10</b>	Ohm	IEC 60093
Electric strength	<b>26 / 22</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>- / 325</b>	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>8 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>2.5 / -</b>	%	Sim. to ISO 62
Density	<b>1210 / -</b>	kg/m <sup>3</sup>	ISO 1183

**Characteristics**

**Processing**

Extrusion - blow molding, Other Extrusion

**Automotive**

Air intake systems, Cooling and climate control

**Delivery form**

Granules

**Electricals & Electronics**

Cables & Tubes

**Special Characteristics**

Improved heat resistance

**Industry & Consumer goods**

Hydraulics & Pneumatics