

# CAMPUS® Datasheet

Grivory GVN-5H black 9915 - PA\*-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG



## Product Texts

Product-nomenclature: ISO 16396-PA66 PA6I/X,M1H,C14-160

Partially aromatic Polyamide

## Product Attributes

Improved flowability and demoulding, Improved impact resistance, Improved heat resistance

## Markets

### Automotive

Air intake sytems, Automotive electr. and electronics, lighting, Cooling and climate control, Powertrain and Chassis, Interior, Exterior

### Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution

### Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering, Power transmission, Sanitary, water and gas supply, Sports & Leisure, Tools & Accessories

Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile modulus	15500 / 14500	MPa	ISO 527-1/-2
Stress at break	220 / 190	MPa	ISO 527-1/-2
Strain at break	3 / 4	%	ISO 527-1/-2
Charpy impact strength, +23°C	95 / 95	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	85 / 85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	16 / 16	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	14 / 14	kJ/m <sup>2</sup>	ISO 179/1eA
Shore D hardness	- / 89	-	ISO 48-4
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	240 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	165 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	15 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2
Burning behavior at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested (h)	0.8 / *	mm	IEC 60695-11-10
Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E12 / 1E12	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	35 / 35	kV/mm	IEC 60243-1
Comparative tracking index	- / 575	-	IEC 60112
Other properties	dry / cond	Unit	Test Standard
Water absorption	4 / *	%	Sim. to ISO 62
Humidity absorption	1.3 / *	%	Sim. to ISO 62

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Density 1550 / - kg/m³ ISO 1183

**Characteristics**

<b>Processing</b> Injection Molding	<b>Special Characteristics</b> Heat stabilized or stable to heat
<b>Delivery form</b> Granules	<b>Regional Availability</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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