

**Grivory HT XE 4027 black 9916**

PA\*-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA10T/X, MHF, 11-100, GF 30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>10000 / 10000</b>	MPa	ISO 527-1/-2
Stress at break	<b>130 / 130</b>	MPa	ISO 527-1/-2
Strain at break	<b>2 / 2</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>50 / 50</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>50 / 50</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>8 / 8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>7 / 7</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	<b>235 / 235</b>	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>295 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>260 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	<b>155 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>20 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>70 / -</b>	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	<b>V-0 / -</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5 / -</b>	mm	IEC 60695-11-10
Burning Behav. at thickness h	<b>V-0 / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.4 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>150</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>250</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>1E9 / 1E9</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E11</b>	Ohm	IEC 60093
Electric strength	<b>33 / 33</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>- / 600</b>	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>2.3 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.9 / -</b>	%	Sim. to ISO 62
Density	<b>1410 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.3 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>1.0 / -</b>	%	ISO 294-4, 2577

**Characteristics**
**Processing**

Injection Molding

**Product Attributes**

Hydrolysis resistant, Bio based Polyamide

**Delivery form**

Granules

**Special Characteristics**

Flame retardant, Improved UV resistance (outdoor use), Improved heat resistance

**Regional Availability****Automotive**

Automotive electr. and electronics, lighting, Fuel systems, Powertrain and Chassis , Interior, Exterior

**Electricals & Electronics**

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Lighting, Mobile phones and other portable devices

**Burning Behaviour**

UL V0