

**Grilamid LV-30H FWA nat**  
PA12-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA12, MH, 18-060, GF30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>6500 / 6000</b>	MPa	ISO 527-1/-2
Stress at break	<b>120 / 105</b>	MPa	ISO 527-1/-2
Strain at break	<b>6 / 8</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>90 / 80</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>90 / 80</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>19 / 20</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>15 / 15</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	<b>- / 77</b>	-	ISO 868
Ball indentation hardness	<b>- / 120</b>	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>178 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>160 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	<b>90 / -</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>150 / -</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>90 - 120</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>150</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>- / 1E11</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E12</b>	Ohm	IEC 60093
Electric strength	<b>- / 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>1.1 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.6 / -</b>	%	Sim. to ISO 62
Density	<b>1220 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.1 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>0.7 / -</b>	%	ISO 294-4, 2577

**Characteristics**

**Processing**

Injection Molding

**Product Attributes**

Hydrolysis resistant

**Delivery form**

Granules

**Industry & Consumer goods**

Heating systems, Housewares, Sanitary, water and gas supply

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PA12-GF30

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**Special Characteristics**

High impact or impact modified, Improved UV resistance (outdoor use), Improved heat resistance

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Food Contact**

NSF 51, EU Requirements, FDA

**Potable Water Contact**

NSF 61, KTW, WRAS, ACS, DVGW W270

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