

Grilamid L 16 GM nat

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	1500 / 1100	MPa	ISO 527-1/-2
Yield stress	45 / 45	MPa	ISO 527-1/-2
Yield strain	5 / 15	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Stress at break	50 / 50	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	- / 6	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / 5	kJ/m ²	ISO 179/1eA

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

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	178 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	50 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	130 / -	°C	ISO 75-1/-2
Burning Behav. at thickness h	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	90 - 110	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Relative permittivity (1MHz)	- / 3	-	IEC 60250
Dissipation factor (1MHz)	- / 400	E-4	IEC 60250
Volume resistivity	- / 1E12	Ohm*m	IEC 60093
Surface resistivity	- / 1E13	Ohm	IEC 60093
Electric strength	- / 32	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.5 / -	%	Sim. to ISO 62
Humidity absorption	0.4 / -	%	Sim. to ISO 62
Density	1010 / -	kg/m ³	ISO 1183

Characteristics
Processing

Injection Molding

Product Attributes

Improved flowability and demoulding, Nucleated

Delivery form

Granules

Electricals & Electronics

Electrical equipment, Connectors

Special Characteristics

Improved heat resistance

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering, Sports & Leisure, Tools & Accessories

Regional Availability

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

