

Grilamid L XE 10987 nat
PA12-GB

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product Nomenclature:
ISO 16396-PA12+X,GB30,M1H,C18-030

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	2700 / 2600	MPa	ISO 527-1/-2
Stress at break	50 / 50	MPa	ISO 527-1/-2
Strain at break	15 / 15	%	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	30 / 150	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	80 / 80	-	ISO 868

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)	80 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	145 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	80 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	80 / -	E-6/K	ISO 11359-1/-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 - 120	°C	ISO 2578
Max. usage temperature (short term)	140	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E9 / 1E9	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Electric strength	40 / 40	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.7 / -	%	Sim. to ISO 62
Humidity absorption	0.8 / -	%	Sim. to ISO 62
Density	1220 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.8 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.9 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Industry & Consumer goods

Sanitary, water and gas supply

Delivery form

Granules

Food Contact

EU Requirements, FDA

Regional Availability

North America, Europe, Asia Pacific, South and Central America,

Potable Water Contact

NSF 61, KTW, WRAS, ACS, DVGW W270

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Near East/Africa

Product Attributes

Hydrolysis resistant
