

Grilamid LV-30H V0

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product nomenclature: ISO 16396-PA12,GF30 FR,M1HLF2R,C18-100N

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	10000 / 9000	MPa	ISO 527-1/-2
Stress at break	95 / 75	MPa	ISO 527-1/-2
Strain at break	2.5 / 2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	35 / 35	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / 8	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	170 / 145	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	176 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	160 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	105 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	20 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	90 / -	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	V-0 / -	class	IEC 60695-11-10
Thickness tested	1.5 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	90 - 120	°C	ISO 2578

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E9 / 1E9	Ohm*m	IEC 60093
Surface resistivity	- / 1E11	Ohm	IEC 60093
Electric strength	44 / 43	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.4 / -	%	Sim. to ISO 62
Humidity absorption	0.6 / -	%	Sim. to ISO 62
Density	1220 / -	kg/m ³	ISO 1183

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

Characteristics

Processing

Injection Molding

Automotive

Automotive electr. and electronics, lighting

Delivery form

Granules

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Lighting

Special Characteristics

Flame retardant, Light stabilized or stable to light

Industry & Consumer goods

Sanitary, water and gas supply

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Regional Availability

Burning Behaviour

UL V0

Product Attributes

Hydrolysis resistant
