TECHNICAL DATASHEET

Grilamid LV-30H V0 natural

PA12

EMS-GRIVORY
Material Database

Processing
Injection molding

Delivery form
Granules

Special Characteristics
Light stabilized or stable to light

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

Product Information

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

Mechanical Properties	dry/cond	Unit	Standard
Tensile modulus	10000 / 9000	MPa	ISO 527
Stress at break	95 / 75	MPa	ISO 527
Strain at break	2.5 / 2.5	%	ISO 527
Charpy impact strength, +23°C	35 / 35	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	35 / 35	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	9 / 9	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	8 / 8	kJ/m²	ISO 179/1eA
Ball indentation hardness	170 / 145	MPa	ISO 2039-1

Thermal Properties	dry/cond	Unit	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
Max. usage temperature (long term)	90 - 120	°C	ISO 2578

Electrical Properties	dry/cond	Unit	Standard
Electric strength	44 / 43	kV/mm	IEC 60243-1
Comparative tracking index	- / 600		IEC 60112
Volume resistivity	1E9 / 1E9	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E11	Ohm	IEC 62631-3-2

General Properties	dry/cond	Unit	Standard
Density	1220 / -	kg/m³	ISO 1183
Burning behav. at thickness h	V-0 / -	class	IEC 60695-11-10
Thickness tested	1.5 / -	mm	
Water absorption	1.4 / -	%	Sim. to ISO 62
Humidity absorption	0.6 / -	%	Sim. to ISO 62

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General Properties	dry/cond	Unit	Standard
Molding shrinkage, parallel	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.65 / -	%	ISO 294-4, 2577

Processing Injection Molding	Value	Unit	Standard
Hopper zone	60 - 80	°C	
Feeding zone	240 - 260	°C	
Compression zone	250 - 270	°C	
Metering zone	260 - 280	°C	
Nozzle (IM)	260 - 280	°C	
Melt	260 - 290	°C	
Mold surface temperature	60 - 100	°C	
Injection speed	Medium - High	-	
Pressure	300 - 800	bar	
Dynamic pressure (hydraulic)	50 - 100	bar	
Circumferencial screw speed	5 - 15	m/s	

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Created: Aug 25, 2026