TECHNICAL DATASHEET

Grilamid L 25 W 10 H FR natural

PA12 FR

EMS-GRIVORY
Material Database

Processing
Other extrusion

Delivery form
Granules

Additives
Flame retarding agent

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

Product Information

Product-nomenclature: ISO16396-PA12-P,,EF2H,C22-007

Mechanical Properties	dry/cond	Unit	Standard
Tensile modulus	- / 700	MPa	ISO 527
Stress at 50% strain	- / 40	MPa	ISO 527
Strain at break	- / >50	%	ISO 527
Charpy impact strength, +23°C	- / N	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	- / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	- / 100	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 7	kJ/m²	ISO 179/1eA
Ball indentation hardness	- / 49	MPa	ISO 2039-1

Thermal Properties	dry/cond	Unit	Standard
Melting temperature, 10°C/min	178 / -	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	55 / -	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	120 / -	°C	ISO 75-1/-2
Oxygen index	28 / -	%	ISO 4589-1/-2
Max. usage temperature (long term)	95	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

Electrical Properties	dry/cond	Unit	Standard
Electric strength	- / 22	kV/mm	IEC 60243-1
Comparative tracking index	- / 600		IEC 60112
Volume resistivity	- / 1E7	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E10	Ohm	IEC 62631-3-2

General Properties	dry/cond	Unit	Standard
Density	1110 / -	kg/m³	ISO 1183
Burning behav. at thickness h	V-2 / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	

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General Properties	dry/cond	Unit	Standard
Water absorption	1.5 / -	%	Sim. to ISO 62
Humidity absorption	0.7 / -	%	Sim. to ISO 62
Molding shrinkage, parallel	0.7 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / -	%	ISO 294-4, 2577

Processing Extrusion	Value	Unit	Standard
Length	18 - 24	mm	
Compression ratio	2.8 - 3.5		
Conveying zone	230 - 250	°C	
Compression zone	220 - 250	°C	
Metering zone	220 - 250	°C	
Melt	220 - 250	°C	
Die	220 - 250	°C	
Adapter	220 - 250	°C	

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