

Grilamid LV-15H nat
PA12-GF15

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA12, MHR, 18-030, GF15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	3500 / 3000	MPa	ISO 527-1/-2
Stress at break	80 / 70	MPa	ISO 527-1/-2
Strain at break	8 / 10	%	ISO 527-1/-2
Charpy impact strength (+23°C)	- / 75	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	- / 75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	- / 15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / 10	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	- / 74	-	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)	150 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	80 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	40 / -	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)	150	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	- / 35	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.3 / -	%	Sim. to ISO 62
Humidity absorption	0.8 / -	%	Sim. to ISO 62
Density	1120 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.3 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.7 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Product Attributes

Hydrolysis resistant

Delivery form

Granules

Automotive

Air intake systems, Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Cooling and climate control, Fuel systems, Powertrain and Chassis

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Special Characteristics

High impact or impact modified, Light stabilized or stable to light

Regional Availability

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

Electricals & Electronics

Electrical appliances, Connectors

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering,
Medical devices, Power transmission, Sanitary, water and gas
supply, Sports & Leisure, Tools & Accessories
