

Grilamid LBV-65H FWA nat PA12-GF65

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA12, MH, 18-190, GF65

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	20000 / 18500	MPa	ISO 527-1/-2
Stress at break	190 / 170	MPa	ISO 527-1/-2
Strain at break	3/3	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / 60	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	65 / 60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 12	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 10	kJ/m²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	- / 88	-	ISO 868
Ball indentation hardness	- / 230	MPa	ISO 2039-1

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)	160 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	130 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	10 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	75 / -	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)	160	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E11	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	0.8 / -	%	Sim. to ISO 62
Humidity absorption	0.4 / -	%	Sim. to ISO 62
Density	1650 / -	kg/m³	ISO 1183
Rheo/Phys properties	dry / cond	Unit	Test Standard

Rheo/Phys properties	dry / cond	Unit	Test Standard	
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577	
Molding shrinkage (normal)	0.4 / -	%	ISO 294-4, 2577	_
				_

Characteristics	
Processing	Product Attributes
Injection Molding	Hydrolysis resistant
njecion Molang	Hyuloiysis lesistalit
Delivery form	Industry & Consumer goods
Granules	Heating systems, Sanitary, water and gas supply

Created: 2017-08-11 Source: www.materialdatacenter.com

The values are intended to serve as an aid in preselecting materials and for an overview of the EMS-GRIVORY product range. The information contained in this publication is based on our present knowledge and experience. The given figures and data are guidance values and do not represent binding material specifications. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are given regarding products, design, data and information. The customer is not released from his obligation to investigate the products fitness and the suitability for the intended application, compliance with legal requirements and intellectual property rights. We reserve the right to change the information at any time and without prior notice. The information is not to be considered a contractual obligation and anyliability whatsoever is expressly declined. For further questions about our products please contact our experts.

Page: 1/2

Grilamid LBV-65H FWA nat PA12-GF65

Special Characteristics

High impact or impact modified, Improved UV resistance (outdoor use), Improved heat resistance

Regional Availability

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

Food Contact

EU Requirements, FDA

Potable Water Contact

NSF 61, KTW, WRAS, ACS, DVGW W270

Created: 2017-08-11 Source: www.materialdatacenter.com

Page: 2/2

The values are intended to serve as an aid in preselecting materials and for an overview of the EMS-GRIVORY product range. The information contained in this publication is based on our present knowledge and experience. The given figures and data are guidance values and do not represent binding material specifications. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are given regarding products, design, data and information. The customer is not released from his obligation to investigate the products fitness and the suitability for the intended application, compliance with legal requirements and intellectual property rights. We reserve the right to change the information at any time and without prior notice. The information is not to be considered a contractual obligation and anyliability whatsoever is expressly declined. For further questions about our products please contact our experts.