

Grilamid LVX-50H black 9230 PA12-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

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Product-nomenclature acc. ISO 1874: PA12, MHR, 18-190, GF50

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	- / 12000	MPa	ISO 527-1/-2
Stress at break	- / 145	MPa	ISO 527-1/-2
Strain at break	- / 3.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	- / 85	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	- / 85	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	- / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / 20	kJ/m²	ISO 179/1eA

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)	175 / -	°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)	15 / -	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	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	- / 55	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	1470 / -	kg/m³	ISO 1183

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Rneo/Pnys properties	ary / cona	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.4/-	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Delivery form

Granules

Special Characteristics

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

Product Attributes

Improved flowability and demoulding

Automotive

Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Fuel systems, Powertrain and Chassis , Interior, Exterior

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Lighting, Mobile phones and other portable devices

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