

Grivory GV XE 16101 (GVL-5H HP)

PA*-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:
PA66+PA6I/X, MH, 14-180, GF50

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	17500 / 16800	MPa	ISO 527-1/-2
Stress at break	290 / 265	MPa	ISO 527-1/-2
Strain at break	2.5 / 2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	115 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 100	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	40 / 40	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	40 / 40	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	275 / 260	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	260 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	255 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	220 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	20 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	50 / -	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)	100 - 120	°C	ISO 2578
Max. usage temperature (short term)	220	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E10 / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E13	Ohm	IEC 60093
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	4 / -	%	Sim. to ISO 62
Humidity absorption	1.3 / -	%	Sim. to ISO 62
Density	1560 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.3 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Delivery form

Granules

Special Characteristics

Improved heat resistance

Product Attributes

Improved flowability and demoulding, Long Fiber Reinforced, Partially aromatic Polyamide

Automotive

Automotive electr. and electronics, lighting, Cooling and climate control, Powertrain and Chassis , Interior, Exterior

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Regional Availability

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

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy
distribution

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering,
Power transmission, Sports & Leisure, Tools & Accessories
