

Test Standard

ISO 2039-1

EMS

Grilamid LVX-65H SST black 9288 PA12-GF65

EMS-GRIVORY | a unit of EMS-CHEMIE AG

MPa

°C

Product Texts

Product designation according to ISO 1874:

PA12, MHR, 18-190, GF65

Mechanical properties (TPE)

Max. usage temperature (short term)

Ball indentation hardness

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	19000 / 17000	MPa	ISO 527-1/-2
Stress at break	200 / 185	MPa	ISO 527-1/-2
Strain at break	2.5 / 2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / 85	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	80 / 80	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 20	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	20 / 20	kJ/m²	ISO 179/1eA

dry / cond

210 / 190

150

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)	160 / -	°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)	70 / -	E-6/K	ISO 11359-1/-2
Max. usage temperature (long term)	90 - 120	°C	ISO 2578

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	35 / 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	1700 / -	kg/m³	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 **Product Attributes**

Injection Molding Improved flowability and demoulding

Delivery form

Granules

Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Powertrain and Chassis **Special Characteristics**

Electricals & Electronics

High impact or impact modified, Improved UV resistance (outdoor

Electrical appliances, Electrical equipment, Connectors, Mobile use), Improved heat resistance

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Regional Availability

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

phones and other portable devices

Industry & Consumer goods

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