

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



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

