

Grivory XE 4095 black 9225

PA*-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 10T/X, MH, 14-100, GF50

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|----------------------|-------------------|---------------|
| Tensile Modulus | 17000 / 16500 | MPa | ISO 527-1/-2 |
| Stress at break | 220 / 200 | MPa | ISO 527-1/-2 |
| Strain at break | 2 / 2 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 80 / 70 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 75 / 70 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 11 / 11 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 10 / 10 | kJ/m ² | ISO 179/1eA |

| Mechanical properties (TPE) | dry / cond | Unit | Test Standard |
|-----------------------------|------------------|------|---------------|
| Ball indentation hardness | 280 / 280 | MPa | ISO 2039-1 |

| Thermal properties | dry / cond | Unit | Test Standard |
|--|----------------|-------|-----------------|
| Melting temperature (10°C/min) | 295 / - | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 270 / - | °C | ISO 75-1/-2 |
| Temp. of deflection under load (8.00 MPa) | 240 / - | °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) | 60 / - | E-6/K | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB / - | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / - | mm | IEC 60695-11-10 |
| Burning Behav. at thickness h | HB / - | class | IEC 60695-11-10 |
| Thickness tested | 0.4 / - | mm | IEC 60695-11-10 |
| Max. usage temperature (long term) | 150 | °C | ISO 2578 |
| Max. usage temperature (short term) | 250 | °C | EMS |

| Electrical properties | dry / cond | Unit | Test Standard |
|----------------------------|--------------------|-------|---------------|
| Volume resistivity | 1E10 / 1E10 | Ohm*m | IEC 60093 |
| Surface resistivity | - / 1E11 | Ohm | IEC 60093 |
| Electric strength | 32 / 31 | kV/mm | IEC 60243-1 |
| Comparative tracking index | - / 600 | - | IEC 60112 |

| Other properties | dry / cond | Unit | Test Standard |
|---------------------|-----------------|-------------------|----------------|
| Water absorption | 1.7 / - | % | Sim. to ISO 62 |
| Humidity absorption | 0.8 / - | % | Sim. to ISO 62 |
| Density | 1580 / - | kg/m ³ | ISO 1183 |

| Rheo/Phys properties | dry / cond | Unit | Test Standard |
|------------------------------|----------------|------|-----------------|
| Molding shrinkage (parallel) | 0.2 / - | % | ISO 294-4, 2577 |
| Molding shrinkage (normal) | 0.7 / - | % | ISO 294-4, 2577 |

Characteristics
Processing

Injection Molding

Product Attributes

Hydrolysis resistant, Improved alcohol resistance, Bio based Polyamide, Partially aromatic Polyamide

Delivery form

Granules

Special Characteristics

Improved heat resistance

Regional AvailabilityNorth America, Europe, Asia Pacific, South and Central America,
Near East/Africa**Automotive**Air intake systems, Compressed air systems, Hydraulic systems,
Cooling and climate control, Fuel systems, Powertrain and Chassis
, Interior**Industry & Consumer goods**Hydraulics & Pneumatics, Mechanical Engineering, Power
transmission, Tools & Accessories