

**Grivory HT1V-3 FWA nat**  
PA6T/6I-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:  
PA6T/6I, MH, 12-110, GF30

| Mechanical properties                  | dry / cond           | Unit              | Test Standard |
|--|----------------------|-------------------|---------------|
| Tensile Modulus                        | <b>11000 / 11000</b> | MPa               | ISO 527-1/-2  |
| Stress at break                        | <b>190 / 170</b>     | MPa               | ISO 527-1/-2  |
| Strain at break                        | <b>2 / 2</b>         | %                 | ISO 527-1/-2  |
| Charpy impact strength (+23°C)         | <b>50 / 50</b>       | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy impact strength (-30°C)         | <b>50 / 50</b>       | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength (+23°C) | <b>7 / 7</b>         | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Charpy notched impact strength (-30°C) | <b>7 / 7</b>         | kJ/m <sup>2</sup> | ISO 179/1eA   |

| Mechanical properties (TPE) | dry / cond       | Unit | Test Standard |
|-----------------------------|------------------|------|---------------|
| Ball indentation hardness   | <b>280 / 270</b> | MPa  | ISO 2039-1    |

| Thermal properties                           | dry / cond     | Unit  | Test Standard   |
|--|----------------|-------|-----------------|
| Melting temperature (10°C/min)               | <b>325 / -</b> | °C    | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa)    | <b>280 / -</b> | °C    | ISO 75-1/-2     |
| Temp. of deflection under load (8.00 MPa)    | <b>140 / -</b> | °C    | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | <b>20 / -</b>  | E-6/K | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | <b>50 / -</b>  | E-6/K | ISO 11359-1/-2  |
| Burning Behav. at thickness h                | <b>HB / -</b>  | class | IEC 60695-11-10 |
| Thickness tested                             | <b>0.8 / -</b> | mm    | IEC 60695-11-10 |
| Max. usage temperature (long term)           | <b>140</b>     | °C    | ISO 2578        |
| Max. usage temperature (short term)          | <b>270</b>     | °C    | EMS             |

| Electrical properties      | dry / cond         | Unit  | Test Standard |
|----------------------------|--------------------|-------|---------------|
| Volume resistivity         | <b>1E11 / 1E11</b> | Ohm*m | IEC 60093     |
| Surface resistivity        | <b>- / 1E12</b>    | Ohm   | IEC 60093     |
| Electric strength          | <b>35 / 35</b>     | kV/mm | IEC 60243-1   |
| Comparative tracking index | <b>- / 575</b>     | -     | IEC 60112     |

| Other properties    | dry / cond      | Unit              | Test Standard  |
|---------------------|-----------------|-------------------|----------------|
| Water absorption    | <b>3.5 / -</b>  | %                 | Sim. to ISO 62 |
| Humidity absorption | <b>1.8 / -</b>  | %                 | Sim. to ISO 62 |
| Density             | <b>1440 / -</b> | kg/m <sup>3</sup> | ISO 1183       |

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

**Characteristics**

**Processing**

Injection Molding

**Industry & Consumer goods**

Housewares, Medical devices, Sanitary, water and gas supply

**Delivery form**

Granules

**Food Contact**

NSF 51, EU Requirements, FDA

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America,

**Potable Water Contact**

NSF 61, KTW, WRAS, ACS, DVGW W270

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Near East/Africa

Product Attributes

Hydrolysis resistant

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