

## Grivory G 25

PA6I/6T

EMS-GRIVORY | a unit of EMS-CHEMIE AG

### Product Texts

Product designation according to ISO 1874:

PA 6I/6T, FT, 12-030

| Mechanical properties                  | dry / cond         | Unit              | Test Standard |
|----------------------------------------|--------------------|-------------------|---------------|
| Tensile Modulus                        | <b>3000 / 3000</b> | MPa               | ISO 527-1/-2  |
| Charpy notched impact strength (+23°C) | <b>8 / 8</b>       | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Charpy notched impact strength (-30°C) | <b>8 / 2</b>       | kJ/m <sup>2</sup> | ISO 179/1eA   |

| Thermal properties                      | dry / cond     | Unit | Test Standard  |
|-----------------------------------------|----------------|------|----------------|
| Glass transition temperature (10°C/min) | <b>125 / -</b> | °C   | ISO 11357-1/-2 |

| Other properties    | dry / cond      | Unit              | Test Standard  |
|---------------------|-----------------|-------------------|----------------|
| Water absorption    | <b>7 / -</b>    | %                 | Sim. to ISO 62 |
| Humidity absorption | <b>2 / -</b>    | %                 | Sim. to ISO 62 |
| Density             | <b>1180 / -</b> | kg/m <sup>3</sup> | ISO 1183       |

| Film Properties                            | dry / cond     | Unit                                     | Test Standard  |
|--------------------------------------------|----------------|------------------------------------------|----------------|
| Stress at yield (parallel)                 | <b>85 / -</b>  | MPa                                      | ISO 527-3      |
| Stress at yield (normal)                   | <b>85 / -</b>  | MPa                                      | ISO 527-3      |
| Strain at yield (parallel)                 | <b>5 / -</b>   | %                                        | ISO 527-3      |
| Strain at yield (normal)                   | <b>5 / -</b>   | %                                        | ISO 527-3      |
| Maximum strain (parallel)                  | <b>300 / -</b> | %                                        | ISO 527-3      |
| Maximum strain (normal)                    | <b>300 / -</b> | %                                        | ISO 527-3      |
| Elmendorf Tear resistance (parallel)       | <b>10 / -</b>  | N                                        | ISO 6383-2     |
| Elmendorf Tear resistance (normal)         | <b>10 / -</b>  | N                                        | ISO 6383-2     |
| Trouser Tear resistance (parallel)         | <b>5 / -</b>   | N/mm                                     | ISO 6383-1     |
| Trouser Tear resistance (normal)           | <b>5 / -</b>   | N/mm                                     | ISO 6383-1     |
| Gloss, 60°                                 | <b>160 / -</b> | -                                        | ISO 2813       |
| WVTR (23°C/85%r.h.)                        | <b>7 / -</b>   | g/(m <sup>2</sup> *d)                    | ISO 15106-1/-2 |
| Oxygen transmission rate (23°C/0%r.h.)     | <b>30 / -</b>  | cm <sup>3</sup> /(m <sup>2</sup> *d*bar) | ISO 15105-1/-2 |
| Oxygen transmission rate (23°C/85%r.h.)    | <b>10 / -</b>  | cm <sup>3</sup> /(m <sup>2</sup> *d*bar) | ISO 15105-1/-2 |
| Carbon Dioxide transm. rate (23°C/0%r.h.)  | <b>90 / -</b>  | cm <sup>3</sup> /(m <sup>2</sup> *d*bar) | ISO 15105-1/-2 |
| Carbon Dioxide transm. rate (23°C/85%r.h.) | <b>40 / -</b>  | cm <sup>3</sup> /(m <sup>2</sup> *d*bar) | ISO 15105-1/-2 |
| Stress at break (parallel)                 | <b>85</b>      | MPa                                      | ISO 527-3      |
| Stress at break (normal)                   | <b>85</b>      | MPa                                      | ISO 527-3      |

| Rheo/Phys properties        | dry / cond     | Unit                   | Test Standard |
|-----------------------------|----------------|------------------------|---------------|
| Melt volume-flow rate (MVR) | <b>12 / -</b>  | cm <sup>3</sup> /10min | ISO 1133      |
| Temperature                 | <b>275 / -</b> | °C                     | ISO 1133      |
| Load                        | <b>5 / -</b>   | kg                     | ISO 1133      |

### Characteristics

#### Processing

Extrusion - blow molding, Injection (stretch) blow molding

#### Delivery form

Granules

#### Product Attributes

Barrier Properties, High viscosity, Partially aromatic Polyamide

#### Packaging

Blow moulded containers, Injectionstretchblowmoulded containers, Tubes, Cosmetics / Personal care



**Special Characteristics**

Transparent

**Food Contact**

EU Requirements, FDA

**Regional Availability**

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

