

Grilamid TR 30 nat

PA*

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 6I/X , GT, 12-030

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|-------------------|-------------------|---------------|
| Tensile Modulus | - / 2800 | MPa | ISO 527-1/-2 |
| Yield stress | - / 90 | MPa | ISO 527-1/-2 |
| Yield strain | - / 6 | % | ISO 527-1/-2 |
| Strain at break | - / >50 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | - / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | - / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | - / 12 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | - / 12 | kJ/m ² | ISO 179/1eA |

| Mechanical properties (TPE) | dry / cond | Unit | Test Standard |
|-----------------------------|----------------|------|---------------|
| Ball indentation hardness | - / 160 | MPa | ISO 2039-1 |

| Thermal properties | dry / cond | Unit | Test Standard |
|--|-----------------|-------|-----------------|
| Glass transition temperature (10°C/min) | 160 / - | °C | ISO 11357-1/-2 |
| Temp. of deflection under load (1.80 MPa) | 125 / - | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 135 / - | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 60 / - | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 60 / - | E-6/K | ISO 11359-1/-2 |
| Burning Behav. at thickness h | V-2 / - | class | IEC 60695-11-10 |
| Thickness tested | 0.8 / - | mm | IEC 60695-11-10 |
| Max. usage temperature (long term) | 80 - 100 | °C | EMS |
| Max. usage temperature (short term) | 120 | °C | EMS |

| Electrical properties | dry / cond | Unit | Test Standard |
|----------------------------|-----------------|-------|---------------|
| Volume resistivity | - / 1E11 | Ohm*m | IEC 60093 |
| Surface resistivity | - / 1E12 | Ohm | IEC 60093 |
| Electric strength | - / 27 | kV/mm | IEC 60243-1 |
| Comparative tracking index | - / 600 | - | IEC 60112 |

| Other properties | dry / cond | Unit | Test Standard |
|---------------------|-----------------|-------------------|----------------|
| Water absorption | 7 / - | % | Sim. to ISO 62 |
| Humidity absorption | 2 / - | % | Sim. to ISO 62 |
| Density | 1150 / - | kg/m ³ | ISO 1183 |

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

Characteristics
Processing

Injection Molding, Calandring

Delivery form

Granules

Automotive

Compressed air systems, Automotive electr. and electronics, lighting, Cooling and climate control, Fuel systems, Powertrain and Chassis , Interior

Regional Availability

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

Product Attributes

Barrier Properties, Hydrolysis resistant, Co Polyamide, Partially aromatic Polyamide, Transparent Polyamide

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Lighting, Mobile phones and other portable devices

Industry & Consumer goods

Medical devices

Packaging

Injectionstretchblowmoulded containers