

Grilon F 50 nat 6368

PA6

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 6, F, 34-030

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|-------------------|-------------------|---------------|
| Tensile Modulus | 3000 / 750 | MPa | ISO 527-1/-2 |
| Charpy notched impact strength (+23°C) | 6 / N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 6 / 5 | kJ/m ² | ISO 179/1eA |

| Thermal properties | dry / cond | Unit | Test Standard |
|--------------------------------|----------------|------|----------------|
| Melting temperature (10°C/min) | 222 / - | °C | ISO 11357-1/-3 |

| Other properties | dry / cond | Unit | Test Standard |
|---------------------|-----------------|-------------------|----------------|
| Water absorption | 9 / - | % | Sim. to ISO 62 |
| Humidity absorption | 3 / - | % | Sim. to ISO 62 |
| Density | 1140 / - | kg/m ³ | ISO 1183 |

| Film Properties | dry / cond | Unit | Test Standard |
|--|----------------|--|----------------|
| Stress at yield (parallel) | 35 / - | MPa | ISO 527-3 |
| Stress at yield (normal) | 30 / - | MPa | ISO 527-3 |
| Strain at yield (parallel) | 15 / - | % | ISO 527-3 |
| Strain at yield (normal) | 15 / - | % | ISO 527-3 |
| Maximum strain (parallel) | 700 / - | % | ISO 527-3 |
| Maximum strain (normal) | 700 / - | % | ISO 527-3 |
| Elmendorf Tear resistance (parallel) | 10 / - | N | ISO 6383-2 |
| Elmendorf Tear resistance (normal) | 10 / - | N | ISO 6383-2 |
| Trouser Tear resistance (parallel) | 30 / - | N/mm | ISO 6383-1 |
| Trouser Tear resistance (normal) | 30 / - | N/mm | ISO 6383-1 |
| Gloss, 60° | 100 / - | - | ISO 2813 |
| WVTR (23°C/85%r.h.) | 15 / - | g/(m ² *d) | ISO 15106-1/-2 |
| Oxygen transmission rate (23°C/0%r.h.) | 25 / - | cm ³ /(m ² *d*bar) | ISO 15105-1/-2 |
| Oxygen transmission rate (23°C/85%r.h.) | 50 / - | cm ³ /(m ² *d*bar) | ISO 15105-1/-2 |
| Carbon Dioxide transm. rate (23°C/0%r.h.) | 80 / - | cm ³ /(m ² *d*bar) | ISO 15105-1/-2 |
| Carbon Dioxide transm. rate (23°C/85%r.h.) | 250 / - | cm ³ /(m ² *d*bar) | ISO 15105-1/-2 |
| Stress at break (parallel) | 100 | MPa | ISO 527-3 |
| Stress at break (normal) | 90 | MPa | ISO 527-3 |
| Gelbofextest | 900 | holes/m ² | EMS |

| Rheo/Phys properties | dry / cond | Unit | Test Standard |
|-----------------------------|-----------------|------------------------|---------------|
| Melt volume-flow rate (MVR) | 45 / - | cm ³ /10min | ISO 1133 |
| Temperature | 275 / - | °C | ISO 1133 |
| Load | 21.6 / - | kg | ISO 1133 |

Characteristics
Processing

Extrusion - blow molding, Blown Film Extrusion, Other Extrusion

Delivery form

Granules

Industry & Consumer goods

Mechanical Engineering

Packaging

Blow moulded containers, Injectionstretchblowmoulded containers



Regional Availability

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

Food Contact

EU Requirements, FDA

Product Attributes

Barrier Properties, High viscosity

