# Grivory® G 16

Polyamide 6I/6T Copolymer

EMS-GRIVORY

## Message:

Grivory® G 16 is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.
Important attributes of Grivory® G 16 are:
RoHS Compliant
Food Contact Acceptable
Low Viscosity
Typical applications include:
Coating Applications
Food Contact Applications
Packaging

| General Information | |
|---|---|
| Features | Aromatic<br>Barrier Resin<br>Food Contact Acceptable<br>Low Viscosity |
| Uses | Coating Applications<br>Cosmetic Packaging<br>Packaging<br>Paper Coatings |
| Agency Ratings | EU Food Contact, Unspecified Rating<br>FDA Food Contact, Unspecified Rating |
| RoHS Compliance | RoHS Compliant |
| Appearance | Clear/Transparent |
| Forms | Granules |
| Processing Method | Extrusion<br>Injection Molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1.18 | -- | g/cm³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (275°C/5.0 kg) | 100 | -- | cm³/10min | ISO 1133 |
| Water Absorption | | | | ISO 62 |
| Saturation, 23°C | 7.0 | -- | % | |
| Equilibrium, 23°C, 50% RH | 2.0 | -- | % | |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |

| | | | | |
|---|---|---|---|---|
| Tensile Modulus | 3000 | 3000 | MPa | ISO 527-2 |
| **Films** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Stress | | | | ISO 527-3 |
| MD : Yield | 85.0 | -- | MPa | |
| TD : Yield | 85.0 | -- | MPa | |
| MD : Break | 80.0 | -- | MPa | |
| Tensile Elongation | | | | ISO 527-3 |
| MD : Yield | 5.0 | -- | % | |
| TD : Yield | 5.0 | -- | % | |
| MD : Break | 200 | -- | % | |
| TD : Break | 200 | -- | % | |
| Elmendorf Tear Strength | | | | ISO 6383-2 |
| MD | 10 | -- | N | |
| TD | 10 | -- | N | |
| Trouser Tear Resistance | | | | ISO 6383-1 |
| MD | 5.00 | -- | N/mm | |
| TD | 5.00 | -- | N/mm | |
| Water Vapor Transmission Rate (23°C, 85% RH) | 7.0 | -- | $g/m^2/24\ hr$ | DIS 15106-1/-2 |
| Oxygen Transmission Rate | | | | DIS 15105-1/-2 |
| 23°C [1] | 30 | -- | $cm^3/m^2/bar/24\ hr$ | |
| 23°C [2] | 10 | -- | $cm^3/m^2/bar/24\ hr$ | |
| Carbon Dioxide Transmission Rate | | | | DIS 15105-1/-2 |
| 23°C [3] | 40.0 | -- | $cm^3/m^2/bar/24\ hr$ | |
| 23°C [4] | 90.0 | -- | $cm^3/m^2/bar/24\ hr$ | |
| ISO Type | PA 6I/6T, FT, 09-030 | -- | | ISO 1874 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -30°C | 8.0 | 2.0 | $kJ/m^2$ | |
| 23°C | 8.0 | 8.0 | $kJ/m^2$ | |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Glass Transition Temperature [5] | 125 | -- | °C | ISO 11357-2 |
| **Optical** | **Dry** | **Conditioned** | | **Test Method** |
| Gloss (60°) | 160 | -- | | ISO 2813 |

| NOTE | |
|---|---|
| 1. | 0% RH |
| 2. | 85% RH |
| 3. | 85% RH |
| 4. | 0% RH |
| 5. | 10°C/min |

## Recommended distributors for this material

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