

# Grilon® TSG-25/4

Polyamide 66/6 Copolymer

EMS-GRIVORY

## Message:

Grilon® TSG-25/4 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 25% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® TSG-25/4 are:

Flame Rated

RoHS Compliant

Typical applications include:

Appliances

Automotive

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

| General Information       |      |                                    |                   |             |
|---------------------------|------|------------------------------------|-------------------|-------------|
| UL YellowCard             |      | E53898-592185                      |                   |             |
| Filler / Reinforcement    |      | Glass Fiber,25% Filler by Weight   |                   |             |
| Uses                      |      | Appliance Components               |                   |             |
|                           |      | Automotive Applications            |                   |             |
|                           |      | Consumer Applications              |                   |             |
|                           |      | Electrical/Electronic Applications |                   |             |
|                           |      | Engineering Parts                  |                   |             |
|                           |      | Household Goods                    |                   |             |
|                           |      | Industrial Applications            |                   |             |
|                           |      | Power/Other Tools                  |                   |             |
|                           |      | Sporting Goods                     |                   |             |
| RoHS Compliance           |      | RoHS Compliant                     |                   |             |
| Forms                     |      | Granules                           |                   |             |
| Processing Method         |      | Injection Molding                  |                   |             |
| Physical                  | Dry  | Conditioned                        | Unit              | Test Method |
| Density                   | 1.30 | --                                 | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage         |      |                                    |                   | ISO 294-4   |
| Across Flow               | 0.70 | --                                 | %                 |             |
| Flow                      | 0.20 | --                                 | %                 |             |
| Water Absorption          |      |                                    |                   | ISO 62      |
| Saturation, 23°C          | 6.0  | --                                 | %                 |             |
| Equilibrium, 23°C, 50% RH | 2.5  | --                                 | %                 |             |
| Mechanical                | Dry  | Conditioned                        | Unit              | Test Method |
| Tensile Modulus           | 7700 | 5600                               | MPa               | ISO 527-2   |
| Tensile Stress            |      |                                    |                   | ISO 527-2   |

|                                                   |                                |             |          |                      |
|---------------------------------------------------|--------------------------------|-------------|----------|----------------------|
| Yield                                             | --                             | 90.0        | MPa      |                      |
| Break                                             | 165                            | 90.0        | MPa      |                      |
| Tensile Strain                                    |                                |             |          | ISO 527-2            |
| Yield                                             | --                             | 4.0         | %        |                      |
| Break                                             | 4.0                            | --          | %        |                      |
| Nominal Tensile Strain at Break                   | --                             | 6.0         | %        | ISO 527-2            |
| Impact                                            | Dry                            | Conditioned | Unit     | Test Method          |
| Charpy Unnotched Impact Strength                  |                                |             |          | ISO 179/1eU          |
| -30°C                                             | 50                             | 50          | kJ/m²    |                      |
| 23°C                                              | 60                             | 70          | kJ/m²    |                      |
| Thermal                                           | Dry                            | Conditioned | Unit     | Test Method          |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 225                            | --          | °C       | ISO 75-2/A           |
| Continuous Use Temperature                        |                                |             |          | Internal Method      |
| -- <sup>1</sup>                                   | 90.0 to 110                    | --          | °C       |                      |
| -- <sup>2</sup>                                   | 180                            | --          | °C       |                      |
| Melting Temperature <sup>3</sup>                  | 260                            | --          | °C       | ISO 11357-3          |
| CLTE                                              |                                |             |          | ISO 11359-2          |
| Flow                                              | 2.5E-5                         | --          | cm/cm/°C |                      |
| Transverse                                        | 8.0E-5                         | --          | cm/cm/°C |                      |
| Flammability                                      | Dry                            | Conditioned |          | Test Method          |
| Flammability Classification (0.800 mm)            | HB                             | --          |          | IEC 60695-11-10, -20 |
| Additional Information                            | Dry                            | Conditioned |          | Test Method          |
| ISO Type                                          | PA 66+PA 6,MHR, 14-080 N,GF-25 |             |          | ISO 1874             |
| NOTE                                              |                                |             |          |                      |
| 1.                                                | Long Term                      |             |          |                      |
| 2.                                                | Short Term                     |             |          |                      |
| 3.                                                | 10°C/min                       |             |          |                      |

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