

# MAJORIS UG300 - 8229

Polyamide 66

AD majoris

## Message:

MAJORIS UG300 - 8229 is a special 30% long glass fibre reinforced polyamide 66 intended for Injection moulding.

### APPLICATIONS

MAJORIS UG300 - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

| General Information                               |                                       |                   |                |
|---------------------------------------------------|---------------------------------------|-------------------|----------------|
| Filler / Reinforcement                            | Long Glass Fiber,30% Filler by Weight |                   |                |
| Features                                          | Recyclable Material                   |                   |                |
| Uses                                              | Automotive Applications               |                   |                |
|                                                   | Electrical Parts                      |                   |                |
| Forms                                             | Pellets                               |                   |                |
| Processing Method                                 | Injection Molding                     |                   |                |
| Physical                                          | Nominal Value                         | Unit              | Test Method    |
| Density                                           | 1.36                                  | g/cm <sup>3</sup> | ISO 1183       |
| Molding Shrinkage                                 | 0.40 to 0.60                          | %                 |                |
| Water Absorption (Equilibrium, 23°C, 50% RH)      | 1.6                                   | %                 |                |
| Mechanical                                        | Nominal Value                         | Unit              | Test Method    |
| Tensile Modulus                                   | 14400                                 | MPa               | ISO 527-2      |
| Tensile Stress (Break)                            | 240                                   | MPa               | ISO 527-2      |
| Tensile Strain (Break)                            | 2.1                                   | %                 | ISO 527-2      |
| Flexural Modulus                                  | 12000                                 | MPa               | ISO 178        |
| Flexural Stress                                   | 335                                   | MPa               | ISO 178        |
| Impact                                            | Nominal Value                         | Unit              | Test Method    |
| Charpy Notched Impact Strength (23°C)             | 10                                    | kJ/m <sup>2</sup> | ISO 179        |
| Charpy Unnotched Impact Strength (23°C)           | 37                                    | kJ/m <sup>2</sup> | ISO 179        |
| Thermal                                           | Nominal Value                         | Unit              | Test Method    |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 255                                   | °C                | ISO 75-2/A     |
| Melting Temperature (DSC)                         | 256                                   | °C                | ISO 3146       |
| Electrical                                        | Nominal Value                         | Unit              | Test Method    |
| Surface Resistivity                               | 1.0E+13                               | ohms              | DIN 53482      |
| Volume Resistivity                                | 1.0E+14                               | ohms · cm         | DIN 53482      |
| Comparative Tracking Index (Solution A)           | 600                                   | V                 | IEC 60112      |
| Flammability                                      | Nominal Value                         | Unit              | Test Method    |
| Flame Rating (1.60 mm)                            | HB                                    |                   | UL 94          |
| Glow Wire Flammability Index (1.60 mm)            | 650                                   | °C                | IEC 60695-2-12 |

| Oxygen Index       | 23                   | %    | ISO 4589-2 |
|--------------------|----------------------|------|------------|
| Injection          | Nominal Value        | Unit |            |
| Drying Temperature | 90.0                 | °C   |            |
| Drying Time        | 4.0                  | hr   |            |
| Rear Temperature   | 290 to 305           | °C   |            |
| Middle Temperature | 285 to 300           | °C   |            |
| Front Temperature  | 280 to 295           | °C   |            |
| Nozzle Temperature | 275 to 280           | °C   |            |
| Mold Temperature   | 90.0 to 120          | °C   |            |
| Injection Pressure | 95.0 to 120          | MPa  |            |
| Injection Rate     | Fast                 |      |            |
| Holding Pressure   | 60.0 to 80.0         | MPa  |            |
| Screw L/D Ratio    | 15.0:1.0 to 20.0:1.0 |      |            |

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