

# TAROLOX 111 G4

Polyethylene Terephthalate

Taro Plast S.p.A.

## Message:

PET glass fibre reinforced 20%, good temperature resistance, very good chemical resistance, very good mechanical, thermal and electrical properties, low moisture absorption, very good dimensional stability.  
Product must be dried before moulding.  
Available: all colours, heat stabilized (H), release agent (W).

| General Information            |                                  |                   |                      |
|--------------------------------|----------------------------------|-------------------|----------------------|
| Filler / Reinforcement         | Glass Fiber,20% Filler by Weight |                   |                      |
| Additive                       | Heat Stabilizer                  |                   |                      |
|                                | Mold Release                     |                   |                      |
| Features                       | Good Chemical Resistance         |                   |                      |
|                                | Good Dimensional Stability       |                   |                      |
|                                | Good Electrical Properties       |                   |                      |
|                                | Good Mold Release                |                   |                      |
|                                | Heat Stabilized                  |                   |                      |
|                                | Low Moisture Absorption          |                   |                      |
|                                | Medium Heat Resistance           |                   |                      |
| Appearance                     | Colors Available                 |                   |                      |
| Forms                          | Pellets                          |                   |                      |
| Processing Method              | Injection Molding                |                   |                      |
| Physical                       | Nominal Value                    | Unit              | Test Method          |
| Specific Gravity               | 1.48 to 1.50                     | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Molding Shrinkage              |                                  |                   | ASTM D955            |
| Flow                           | 0.30 to 0.50                     | %                 |                      |
| Across Flow                    | 0.40 to 0.70                     | %                 |                      |
| Water Absorption (23°C, 24 hr) | 0.060                            | %                 | ASTM D570, ISO 62    |
| Granule Humidity               | < 0.050                          | %                 | Internal Method      |
| Mechanical                     | Nominal Value                    | Unit              | Test Method          |
| Tensile Modulus                | 8200                             | MPa               | ASTM D638, ISO 527-2 |
| Tensile Strength (Break)       | 120                              | MPa               | ASTM D638, ISO 527-2 |
| Tensile Elongation (Break)     | 2.8                              | %                 | ASTM D638, ISO 527-2 |
| Flexural Modulus               | 7800                             | MPa               | ASTM D790, ISO 178   |
| Flexural Stress                |                                  |                   |                      |
| --                             | 170                              | MPa               | ISO 178              |
| Break                          | 170                              | MPa               | ASTM D790            |
| Impact                         | Nominal Value                    | Unit              | Test Method          |

|                                                         |                                   |                   |                              |
|---------------------------------------------------------|-----------------------------------|-------------------|------------------------------|
| Charpy Notched Impact Strength <sup>1</sup> (23°C)      | 8.0                               | kJ/m <sup>2</sup> | ASTM D256, ISO 179           |
| Charpy Unnotched Impact Strength <sup>2</sup> (23°C)    | 42                                | kJ/m <sup>2</sup> | ASTM D256, ISO 179           |
| Notched Izod Impact (23°C, 3.20 mm)                     | 70                                | J/m               | ISO 180, ASTM D256           |
| <b>Thermal</b>                                          | <b>Nominal Value</b>              | <b>Unit</b>       | <b>Test Method</b>           |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 230                               | °C                | ASTM D648, ISO 75-2/A        |
| Vicat Softening Temperature                             | 226                               | °C                | ISO 306/B50, ASTM D1525<br>3 |
| Ball Pressure Test (245°C)                              | Pass                              |                   | VDE 0470                     |
| Melting Temperature                                     | 252                               | °C                | ASTM D211, ISO 121           |
| CLTE - Flow (-30 to 30°C)                               | 3.5E-5                            | cm/cm/°C          | ASTM D696                    |
| <b>Electrical</b>                                       | <b>Nominal Value</b>              | <b>Unit</b>       | <b>Test Method</b>           |
| Dielectric Strength (1.00 mm)                           | 34                                | kV/mm             | ASTM D149                    |
| Comparative Tracking Index (Solution A)                 | 250                               | V                 | IEC 60112                    |
| <b>Flammability</b>                                     | <b>Nominal Value</b>              | <b>Unit</b>       | <b>Test Method</b>           |
| Flame Rating (0.970 mm)                                 | HB                                |                   | UL 94                        |
| Glow Wire Ignition Temperature (2.00 mm)                | 750                               | °C                | IEC 60695-2-13               |
| Oxygen Index                                            | 24                                | %                 | ASTM D2863                   |
| <b>Injection</b>                                        | <b>Nominal Value</b>              | <b>Unit</b>       |                              |
| Drying Temperature                                      | 110 to 130                        | °C                |                              |
| Processing (Melt) Temp                                  | 270 to 300                        | °C                |                              |
| Mold Temperature                                        | 90.0 to 130                       | °C                |                              |
| Injection Rate                                          | Moderate-Fast                     |                   |                              |
| <b>NOTE</b>                                             |                                   |                   |                              |
| 1.                                                      | 6x4x50 mm                         |                   |                              |
| 2.                                                      | 6x4x50 mm                         |                   |                              |
| 3.                                                      | Rate A (50°C/h), Loading 2 (50 N) |                   |                              |

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