



DATA SHEET

TAROLOX 111 G6

PET medium viscosity 30% glass fibres reinforced, very good chemical resistance, good mechanical, thermal and electrical properties, low moisture absorption, good dimensional stability.

Available: all colours, heat stabilized (H), release agent (W).

| | | | |
|--------------------|-------------------|---------------------------|-------------|
| Pre-heater: | - | Melt temperature: | 270 - 300°C |
| Dryer: | 110 - 130°C / 3 h | Mould temperature: | 90 - 130°C |
| | | Rate of injection: | MEDIUM-HIGH |

| PROPERTY | METHOD | unit | VALUE | condition |
|-------------------------------------------|-----------------|-------------------|--------------------|-----------------|
| ELECTRICAL | | | | |
| Volume Resistivity | IEC 60093 | Ohm cm | 10exp(15) | |
| Dielectric Constant | IEC 60250 | - | 3,6 | |
| Tracking Resistance (CTI - Method A) | IEC 60112 | Volt | 250 | |
| Electric Strength | IEC 60243-1 | kV/mm | 34 | 1 mm |
| PHYSICAL | | | | |
| Reinforcing Charges | ISO 3451 | % | 30 | 750°C - 1 h |
| Granule Humidity | TARO 002 | % | <0,03 | |
| Density (23 °C) | ISO 1183 | g/cm ³ | 1,55-1,57 | |
| Water Absorption (24h / 23°C) | ISO 62 | % | 0,05 | |
| Mould Shrinkage (Parallel) | Internal method | % | 0,2-0,3 | |
| Mould Shrinkage (Normal) | Internal method | % | 0,5 - 0,7 | |
| Melting temperature (DSC) | ISO 11357 | °C | 256 | |
| MECHANICAL | | | | |
| IZOD Notched Impact | ASTM D256 | J/m | 85 | +23°C |
| IZOD Notched Impact | ASTM D256 | J/m | 70 | -20°C |
| Tensile Modulus | ISO 527-1,2 | Mpa | 10000 | Speed 1 mm/min |
| Flexural Modulus | ISO 178 | Mpa | 9000 | Speed 1 mm/min |
| Elongation at Break | ISO 527-1,2 | % | 2,5 | Speed 50 mm/min |
| Flexural Break Strength | ISO 178 | Mpa | 220 | Speed 1 mm/min |
| Tensile Break Strength | ISO 527-1,2 | Mpa | 135 | Speed 50 mm/min |
| CHARPY Notched Impact (+23°C) | ISO 179/1eA | KJ/m ² | 9 | |
| CHARPY Unnotched Impact (+23°C) | ISO 179/1eU | KJ/m ² | 46 | |
| FLAMMABILITY | | | | |
| Oxygen index | ASTM D2863 | % | 24 | |
| Flame Behaviour (1,6 mm) | UL94 | Class | HB | |
| Flame Behaviour (0,97 mm) | UL94 | Class | HB | |
| Glow Wire Flammability Index-GWFI (2 mm) | IEC 60695-2-12 | °C | 750 | |
| THERMAL | | | | |
| Softening Temperature - 5 kg (VST/B/50) | ISO 306 | °C | 240 | 50°C / h |
| Deflection Temperature 1,80 MPa (HDT A) | ISO 75A | °C | 225 | 120°C / h |
| Ball Pressure Test | IEC 60695-10-2 | °C | 245 | |
| Continuous service temperature (20.000 h) | IEC 60216 | °C | 140 | |
| Continuous service temperature | IEC 60216 | °C | 140 | |
| Coefficient of linear thermal expansion | ISO 11359-1,-2 | K ⁻¹ | 3x10exp(-5) | -30°C /+30°C |

These value are for natural color only. Colorant or other additives may alter some or all of these property. The data listed here fall within the normal range of product properties, but they should not be used to establish specification limits nor used alone as the basis of design.



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| DRYING - conditions | Melt temperature: | 270 - 300°C |
| Pre-heater: - | Mould temperature: | 90 - 130°C |
| Dryer: 110 - 130°C / 3 h | Rate of injection: | MEDIUM-HIGH |

| PROPERTY | METHOD | unit | VALUE | condition |
|------------------------------------------------|---------|------|------------|-----------|
| <i>Deflection Temperature 0,45 MPa (HDT B)</i> | ISO 75B | °C | 246 | 120°C / h |

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