Datasheet

Domamid A1-125-V50-H2-DB
Polyamide 6, 50% glass fiber reinforced, high flow, heat stabilised, deep black

Properties | Unit | Test method | Value
---|---|---|---
**General Properties**
Density | g/cm³ | ISO 1183/A | 1.56
Ash content (650°C) | % | ISO 3451 | 50
Viscosity number (sulfuric acid) | cm³/g | ISO 307 | 125
Melt Volume Flow Rate - MVR (275°C/ 5 kg) | cm³/10 min | ISO 1133 | 30
Moisture absorption (23°C/50% RH, 24 h) | % | ISO R 62 | -
Water absorption (23°C, 24 h in water) | % | ISO R 62 | -
Moulding shrinkage (between 16-72 hrs, 23°C, 50% RH ) | % | ISO 2577 | 0.4
| % | ISO 2577 | 1.1

**Mechanical properties (Dry as Molded)**
Tensile modulus of elasticity (v = 1 mm/min) | MPa | ISO 527-1A | 16200
Tensile yield stress (v = 5 mm/min) | MPa | ISO 527-1A | -
Tensile yield strain (v = 5 mm/min) | % | ISO 527-1A | -
Tensile stress at break (v = 5 mm/min) | MPa | ISO 527-1A | 220
Tensile strain at break (v = 5 mm/min) | % | ISO 527-1A | 2.5
Flexural modulus (v = 5 mm/min) | MPa | ISO 178 | 13400
Flexural strength (v = 5 mm/min) | MPa | ISO 178 | 350
Charpy impact strength notched | + 23°C kJ/m² | ISO 179/1eA | 16
| - 30°C kJ/m² | ISO 179/1eA | -
Charpy impact strength unnotched | + 23°C kJ/m² | ISO 179/1eU | 100
| - 30°C kJ/m² | ISO 179/1eU | -
Ball indentation hardness | N/mm² | ISO 2039-1 | -

**Thermal properties**
Melting point, DSC | °C | ISO 11357-1 | 221
Heat deflection temperature:
- HDT/A (1.8 MPa) | °C | ISO 75-2 | -
- HDT/B (0.45 MPa) | °C | ISO 75-2 | -
Vicat softening temperature:
- VST/A/50 (10N) | °C | ISO 306 | -
- VST/B/50 (50N) | °C | ISO 306 | -

**Burning Behaviour**
 Burning rate (FMVSS302) 2mm | mm/min | ISO 3795 | -
Glow wire temperature 2mm | °C | VDE 0471-2 | -
Glow wire temperature 3 mm | °C | VDE 0471-2 | -
Flammability UL 94, thickness 1.5 mm | | UL 94 | -
Flammability UL 94, thickness 3.0 mm | | UL 94 | -

**Electrical properties**
Volume resistivity | Ohm.cm | VDE 0303-3 | -
Surface resistivity | Ohm | VDE 0303-3 | -

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