

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/cm ³ | ISO 1183/A | 1.56 | |
| Ash content (650°C) | % | ISO 3451 | 50 | |
| Viscosity number (sulfuric acid) | cm ³ /g | ISO 307 | 125 | |
| Melt Volume Flow Rate - MVR (275°C/ 5 kg) | cm ³ /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) | | | | |
| length | % | ISO 2577 | 0.4 | |
| width | % | 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/m ² | ISO 179/1eA | 16 |
| | - 30°C | kJ/m ² | ISO 179/1eA | - |
| Charpy impact strength unnotched | | | | |
| | + 23°C | kJ/m ² | ISO 179/1eU | 100 |
| | - 30°C | kJ/m ² | ISO 179/1eU | - |
| Ball indentation hardness | N/mm ² | 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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