

**DOMAMID 6LVG50H1**

PA6-GF50

DOMO Engineering Plastics

| Processing/Physical Characteristics                | Value     | Unit               | Test Standard       |
|----------------------------------------------------|-----------|--------------------|---------------------|
| <b>ISO Data</b>                                    |           |                    |                     |
| Molding shrinkage, parallel                        | 0.1       | %                  | ISO 294-4, 2577     |
| Molding shrinkage, normal                          | 0.5       | %                  | ISO 294-4, 2577     |
| <b>Mechanical properties</b>                       |           |                    |                     |
| <b>ISO Data</b>                                    |           |                    |                     |
| Tensile Modulus                                    | 15500     | MPa                | ISO 527             |
| Stress at break                                    | 210       | MPa                | ISO 527             |
| Strain at break                                    | 2         | %                  | ISO 527             |
| Flexural modulus, 23°C                             | 14000     | MPa                | ISO 178             |
| Charpy impact strength, +23°C                      | 95        | kJ/m <sup>2</sup>  | ISO 179/1eU         |
| Charpy notched impact strength, +23°C              | 20        | kJ/m <sup>2</sup>  | ISO 179/1eA         |
| Izod impact strength, +23°C                        | 90        | kJ/m <sup>2</sup>  | ISO 180/1U          |
| Izod notched impact strength, +23°C                | 19        | kJ/m <sup>2</sup>  | ISO 180/1A          |
| <b>Thermal properties</b>                          |           |                    |                     |
| <b>ISO Data</b>                                    |           |                    |                     |
| Melting temperature, 10°C/min                      | 221       | °C                 | ISO 11357-1/-3      |
| Temp. of deflection under load, 1.80 MPa           | 210       | °C                 | ISO 75-1/-2         |
| Temp. of deflection under load, 0.45 MPa           | 220       | °C                 | ISO 75-1/-2         |
| Vicat softening temperature, B                     | 215       | °C                 | ISO 306             |
| Burning behav. at thickness h                      | HB        | class              | IEC 60695-11-10     |
| Thickness tested                                   | 0.8       | mm                 | -                   |
| <b>Electrical properties</b>                       |           |                    |                     |
| <b>ISO Data</b>                                    |           |                    |                     |
| Volume resistivity                                 | 1E13      | Ohm*m              | IEC 62631-3-1       |
| Surface resistivity                                | 1E13      | Ohm                | IEC 62631-3-2       |
| <b>Other properties</b>                            |           |                    |                     |
| Density                                            | 1560      | kg/m <sup>3</sup>  | ISO 1183            |
| <b>Material specific properties</b>                |           |                    |                     |
| <b>ISO Data</b>                                    |           |                    |                     |
| Viscosity number                                   | 125       | cm <sup>3</sup> /g | ISO 307, 1157, 1628 |
| <b>Processing Recommendation Injection Molding</b> |           |                    |                     |
| Pre-drying - Temperature                           | 75 - 85   | °C                 | -                   |
| Pre-drying - Time                                  | 2 - 4     | h                  | -                   |
| Melt temperature                                   | 260 - 280 | °C                 | -                   |
| Mold temperature                                   | 90 - 100  | °C                 | -                   |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Heat stabilized or stable to heat