



TENYIMID N2GF3W

Product Description PA66 with 15% glass fiber reinforced, for the automotive industry, Electrical and Electronics and consumer applications.

Material Status Commercial: Active.

Availability Africa & Middle East, Asia Pacific, Europe, Latin America, North America.

Features High temperature, high mechanical strength, high impact and easy processing with good appearance .

Processing Method Injection Molding

| Physical | Nominal Value | Unit | Test Method |
|---|------------------|------------------------|-------------|
| Specific gravity | 1.25 | g/cm ³ | ISO 1183 |
| Water absorption, at 23°C | 7 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile modulus | 6000 | MPa | ISO 527 |
| Flexural modulus | 5500 | MPa | ISO 178 |
| Flexural strength | 190 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 45 | KJ/m ² | ISO 179 |
| Charpy notched impact strength, +23°C | 8 | KJ/m ² | ISO 179 |
| Izod impact strength, notched, +23°C | 5.5 | KJ/m ² | ISO 180 |
| Thermal | Nominal Value | Unit | Test Method |
| HDT, 1.8 MPa under load | 240 | °C | ISO 75 |
| HDT, 0.45 MPa under load | 250 | °C | ISO 75 |
| Maximum service temperature | 240 | °C | |
| CLTE(Transverse/parallel) | 0.3/0.7 | 10 ⁻⁴ /K | ISO 11359 |
| Thermal conductivity | 0.33 | W/(m·k) | DIN 52612 |
| Specific heat | 1800 | J/(kg·k) | |
| Flammability | Nominal Value | Unit | Test Method |
| According UL standard | HB | Class | UL 94 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric constant ,1MHz | 3.5 | | IEC 60250 |
| Dissipation factor,1MHz | 140 | 10 ⁻⁴ | IEC 60250 |
| Volume resistivity | 10 ¹³ | Ω·m | IEC 60250 |
| CTI | 450 | | IEC 60250 |
| Injection | Nominal Value | Unit | Test Method |
| Melting point,DSC | 260 | °C | DIN 53765 |
| Melt volume flow rate, MVR | 60 | cm ³ /10min | ISO 1133 |
| Melt temperature range, Injection molding | 280-300 | °C | |
| Mold temperature range | 80-100 | °C | |



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Disclaimer

Sales products:

This information and technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved.

Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating TENSURE materials or products will be safe and suitable for use under end-use conditions.

Our products are sold and our advisory service is given in accordance with the current version of our General Conditions of Sale and Delivery.

Test figures:

Above figures were measured under the condition of 23 °C and RH 50% base on injection molded specimens .They are typical figures, not specifications.

Kindly note that, under certain conditions,

The properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and coloring.

To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace.

The prescribed processing temperatures should not be substantially exceeded.

Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.