

NILAMID® A2 HH M25

Polyamide 66

Nilit Plastics

Message:

NILAMID® A2 HH M25 is a low viscosity Polyamide 66 (Nylon 66) compound, 25% mineral filled and high heat stabilized.

This compound is intended for injection molding.

NILAMID® A2 HH M25 is primarily designed for the Automotive industry. It is also suitable for Electrical and Electronic or Industrial & Consumer applications.

| General Information | | | |
|----------------------------------|---|-------------------|-------------|
| Filler / Reinforcement | Mineral,25% Filler by Weight | | |
| Additive | Heat Stabilizer | | |
| Features | Heat Stabilized | | |
| Uses | Automotive Applications Consumer Applications Electrical/Electronic Applications Industrial Applications | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density (23°C) | 1.35 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow : 23°C | 0.90 | % | |
| Flow : 23°C | 0.70 | % | |
| Water Absorption | | | ISO 62 |
| 23°C, 24 hr | 1.2 | % | |
| Saturation, 23°C | 6.5 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (23°C) | 4800 | MPa | ISO 527-2 |
| Tensile Stress (Yield, 23°C) | 80.0 | MPa | ISO 527-2 |
| Tensile Strain (Break, 23°C) | 5.5 | % | ISO 527-2 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C | 3.0 | kJ/m ² | |
| 23°C | 4.0 | kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| 23°C | 30 | kJ/m ² | |
| 30°C | 25 | kJ/m ² | |
| Notched Izod Impact Strength | | | ISO 180/A |
| -30°C | 3.5 | kJ/m ² | |
| 23°C | 4.0 | kJ/m ² | |

| Thermal | Nominal Value | Unit | Test Method |
|--|---------------|---------|----------------|
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 230 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 105 | °C | ISO 75-2/A |
| Continuous Use Temperature ¹ | 130 | °C | IEC 60216 |
| Ball Pressure Test | | | |
| 125°C | Pass | | IEC 60695-10-2 |
| 165°C | Pass | | |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity ² | 1.0E+12 | ohms | IEC 60093 |
| Volume Resistivity (23°C) | 1.0E+15 | ohms·cm | IEC 60093 |
| Electric Strength (2.00 mm) | 20 | kV/mm | IEC 60243-1 |
| Comparative Tracking Index (3.20 mm, Solution A) | 500 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | |
| 0.800 mm | HB | | UL 94 |
| 1.60 mm | HB | | |
| 3.20 mm | HB | | |
| Glow Wire Flammability Index | | | |
| 0.800 mm | 650 | °C | IEC 60695-2-12 |
| 3.20 mm | 650 | °C | |
| Oxygen Index | 24 | % | ISO 4589-2 |
| Flammability ³ | B50 | | FMVSS 302 |
| NOTE | | | |
| 1. | 20000 hr | | |
| 2. | 23°C | | |
| 3. | 355x100x1mm | | |

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