

Technical Data

Product Description

(DOMAMID A1-008-V30-H2-N)

Polyamide 6, 30% glass fiber reinforced, heat stabilized, for injection moulding, natural color

General

| | |
|---------------------------|---|
| Material Status | • Commercial: Active |
| Literature ¹ | • Brochure - DOMO ENGINEERING PLASTICS: In Chemicals We Trust. (English) • Brochure - PRODUCTS LIST: DOMAMID & ECONAMID (English) • Technical Datasheet (English) |
| Search for UL Yellow Card | • DOMO Engineering Plastics • DOMAMID® |
| Availability | • Asia Pacific • Europe • North America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Additive | • Heat Stabilizer |
| Features | • Heat Stabilized |
| Appearance | • Natural Color |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • PA6-GF30 |

| Physical | Dry | Conditioned | Unit | Test Method |
|--|--------------|-------------|------------------------|-------------|
| Density | 1.36 | -- | g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (275°C/5.0 kg) | 35.0 | -- | cm ³ /10min | ISO 1133 |
| Molding Shrinkage ³ | | | | ISO 2577 |
| Across Flow : 23°C, 72 hr | 0.85 to 1.1 | -- | % | |
| Flow : 23°C, 72 hr | 0.25 to 0.45 | -- | % | |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 2.3 | -- | % | ISO 62 |
| Viscosity Number | | | | ISO 307 |
| 96% H2SO4 (Sulphuric Acid) | 145 | -- | cm ³ /g | |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 9500 | 6500 | MPa | ISO 527-2/1 |
| Tensile Stress (Break) | 175 | 115 | MPa | ISO 527-2/5 |
| Tensile Strain (Break) | 3.5 | 4.5 | % | ISO 527-2/5 |
| Flexural Modulus ⁴ | 7700 | 4000 | MPa | ISO 178 |
| Flexural Stress ⁴ | 275 | 160 | MPa | ISO 178 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -30°C | 10 | 13 | kJ/m ² | |
| 23°C | 14 | 27 | kJ/m ² | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -30°C | 75 | 95 | kJ/m ² | |
| 23°C | 95 | 90 | kJ/m ² | |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Heat Deflection Temperature | | | | |
| 0.45 MPa, Unannealed | 220 | -- | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 210 | -- | °C | ISO 75-2/A |
| Vicat Softening Temperature | 214 | -- | °C | ISO 306/B50 |
| Melting Temperature | 221 | -- | °C | ISO 11357-3 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Surface Resistivity | 1.0E+14 | -- | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+15 | -- | ohms·cm | IEC 60093 |
| Flammability | Dry | Conditioned | Unit | Test Method |
| Burning Rate | < 100 | -- | mm/min | FMVSS 302 |



DOMAMID® 6G30H2 NC

Polyamide 6

DOMO Engineering Plastics

PROSPECTOR®

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| Injection | Dry Unit |
|------------------------|---------------|
| Drying Temperature | 75 to 85 °C |
| Drying Time | 2.0 to 4.0 hr |
| Processing (Melt) Temp | 250 to 290 °C |
| Mold Temperature | 80 to 100 °C |

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50% RH

⁴ 5.0 mm/min

