# VENYL SWGB308H - 2636

Polyamide 6

AD majoris

## Message:

VENYL SWGB308H - 2636 is a 35 % glass fibre/bead reinforced polyamide 6, UV stabilised. intended for Injection moulding.
APPLICATIONS
VENYL SWGB308H - 2636 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties, good surface finish and good compression strength.
VENYL SWGB308H - 2636 is available in both natural (VENYL SWGB308H) but other colours can be provided on request.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Bead\Glass Fiber,35% Filler by Weight | | |
| Additive | UV Stabilizer | | |
| Features | Good Compressive Strength<br>Good Surface Finish<br>Good UV Resistance<br>Recyclable Material | | |
| Uses | Automotive Applications<br>Electrical Parts | | |
| Appearance | Colors Available<br>Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.40 | g/cm³ | ISO 1183 |
| Molding Shrinkage | 0.20 to 0.40 | % | |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 2.0 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 8300 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 145 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 3.0 | % | ISO 527-2 |
| Flexural Modulus | 8700 | MPa | ISO 178 |
| Flexural Stress | 270 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | 14 | kJ/m² | ISO 179 |
| Charpy Unnotched Impact Strength | 95 | kJ/m² | ISO 179 |
| Notched Izod Impact Strength | 13 | kJ/m² | ISO 180 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 212 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 220 | °C | ISO 75-2/A |
| Melting Temperature (DSC) | 220 | °C | ISO 3146 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+13 | ohms | DIN 53482 |
| Volume Resistivity | 1.0E+17 | ohms·cm | DIN 53482 |
| Comparative Tracking Index (Solution A) | 500 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.60 mm) | HB | | UL 94 |
| Glow Wire Flammability Index (2.00 mm) | 650 | °C | IEC 60695-2-12 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 90.0 | °C | |
| Drying Time | 4.0 | hr | |
| Rear Temperature | 245 to 265 | °C | |
| Middle Temperature | 250 to 270 | °C | |
| Front Temperature | 255 to 275 | °C | |
| Nozzle Temperature | 255 to 275 | °C | |
| Mold Temperature | 90.0 to 120 | °C | |
| Injection Pressure | 85.0 to 110 | MPa | |
| Injection Rate | Fast | | |
| Holding Pressure | 50.0 to 70.0 | MPa | |
| Screw L/D Ratio | 15.0:1.0 to 20.0:1.0 | | |



## Recommended distributors for this material

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