# VENYL UG307 - 8139

Polyamide 66

AD majoris

## Message:

VENYL UG307 - 8139 is a 30 % glass fibre reinforced polyamide 66 intended for Injection moulding.
APPLICATIONS
VENYL UG307 - 8139 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL UG307 - 8139 is available in both black standard (VENYL UG307 - 8229) and natural (VENYL UG307) but other colours can be provided on request.

| General Information | | | | |
|---|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight | | | |
| Features | Recyclable Material | | | |
| Uses | Automotive Applications<br>Electrical Parts | | | |
| Appearance | Black<br>Colors Available<br>Natural Color | | | |
| Forms | Pellets | | | |
| Processing Method | Injection Molding | | | |
| **Physical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Density | 1.36 | -- | g/cm³ | ISO 1183 |
| Molding Shrinkage | 0.50 to 0.80 | -- | % | |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 1.6 | -- | % | |
| **Hardness** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Rockwell Hardness (L-Scale) | 110 | 108 | | ASTM D785 |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus | 9000 | 6250 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 175 | 120 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 3.0 | 3.0 | % | ISO 527-2 |
| Flexural Modulus | 8250 | 5500 | MPa | ISO 178 |
| Flexural Stress | 260 | 215 | MPa | ISO 178 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | 9.0 | 13 | kJ/m² | ISO 179 |
| Charpy Unnotched Impact Strength | 35 | 45 | kJ/m² | ISO 179 |
| Notched Izod Impact | 95 | 130 | J/m | ISO 180 |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |

| | | | | |
|---|---|---|---|---|
| Heat Deflection Temperature | | | | |
| 0.45 MPa, Unannealed | 255 | -- | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 245 | -- | °C | ISO 75-2/A |
| Melting Temperature (DSC) | 256 | -- | °C | ISO 3146 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Surface Resistivity | 1.0E+13 | 1.0E+11 | ohms | DIN 53482 |
| Volume Resistivity | 1.0E+14 | 1.0E+12 | ohms·cm | DIN 53482 |
| Comparative Tracking Index (Solution A) | 600 | -- | V | IEC 60112 |
| Flammability | Dry | Conditioned | Unit | Test Method |
| Flame Rating (1.60 mm) | HB | -- | | UL 94 |
| Glow Wire Flammability Index (2.00 mm) | 750 | -- | °C | IEC 60695-2-12 |
| Oxygen Index | 24 | -- | % | ISO 4589-2 |
| Injection | Dry | Unit | | |
| Drying Temperature | 80.0 to 100 | | °C | |
| Drying Time | 4.0 | | hr | |
| Rear Temperature | 285 to 300 | | °C | |
| Middle Temperature | 280 to 295 | | °C | |
| Front Temperature | 275 to 290 | | °C | |
| Nozzle Temperature | 265 to 280 | | °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

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China