

Nylene® 4114-14 GL HS

Polyamide 66
Custom Resins Group

Message:

Nylene® 4114-14 GL HS is a Polyamide 66 (Nylon 66) material filled with 14% glass fiber. It is available in North America for extrusion or injection molding.

Important attributes of Nylene® 4114-14 GL HS are:

- Heat Resistant
- Good Stiffness
- Heat Stabilizer
- High Strength
- Impact Modified

Typical application of Nylene® 4114-14 GL HS: Automotive

| General Information | |
|------------------------|----------------------------------|
| Filler / Reinforcement | Glass Fiber,14% Filler by Weight |
| Additive | Heat Stabilizer |
| | Impact Modifier |
| Features | Good Stiffness |
| | Good Thermal Stability |
| | Heat Stabilized |
| | High Heat Resistance |
| | High Impact Resistance |
| | High Strength |
| | Impact Modified |
| Forms | Pellets |
| Processing Method | Extrusion |
| | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity | 1.19 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.60 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break, 23°C) | 78.6 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 12 | % | ASTM D638 |
| Flexural Modulus (23°C) | 3450 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 69 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 207 | °C | ASTM D648 |

| | | |
|------------------------|---------------|------|
| Melting Temperature | 259 | °C |
| Injection | Nominal Value | Unit |
| Drying Temperature | 65.6 to 82.2 | °C |
| Drying Time | 2.0 to 4.0 | hr |
| Drying Time, Maximum | 4.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Suggested Shot Size | 25 to 75 | % |
| Suggested Max Regrind | 25 | % |
| Rear Temperature | 260 to 293 | °C |
| Middle Temperature | 277 to 299 | °C |
| Front Temperature | 282 to 310 | °C |
| Nozzle Temperature | 279 to 307 | °C |
| Processing (Melt) Temp | 288 to 316 | °C |
| Mold Temperature | 82.2 to 93.3 | °C |
| Injection Pressure | 34.5 to 103 | MPa |
| Injection Rate | Fast | |
| Holding Pressure | 27.6 to 82.7 | MPa |
| Back Pressure | 0.00 to 0.345 | MPa |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

