

Grilamid® 1SVX-65H nat

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® 1SVX-65H nat is a Polyamide 1010 (Nylon 1010) material filled with 65% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Grilamid® 1SVX-65H nat are:

Flame Rated

Eco-Friendly/Green

Good Mold Release

Heat Stabilizer

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Consumer Goods

Engineering/Industrial Parts

| General Information | |
|------------------------|------------------------------------|
| Filler / Reinforcement | Glass Fiber,65% Filler by Weight |
| Additive | Heat Stabilizer |
| Features | Good Flow |
| | Good Mold Release |
| | Heat Stabilized |
| | Renewable Resource Content |
| Uses | Appliance Components |
| | Automotive Applications |
| | Automotive Exterior Parts |
| | Connectors |
| | Consumer Applications |
| | Electrical/Electronic Applications |
| | Engineering Parts |
| | Household Goods |
| | Hydraulic Applications |
| | Industrial Applications |
| | Medical Devices |
| | Pneumatic Applications |
| | Power/Other Tools |
| | Sporting Goods |
| Appearance | Natural Color |
| Forms | Granules |
| Processing Method | Injection Molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|----------------------------------------|---------|-------------|-------------------|----------------------|
| Density | 1.76 | -- | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | | ISO 294-4 |
| Across Flow | 0.40 | -- | % | |
| Flow | 0.10 | -- | % | |
| Water Absorption | | | | ISO 62 |
| Saturation, 23°C | 2.0 | -- | % | |
| Equilibrium, 23°C, 50% RH | 0.60 | -- | % | |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 21500 | 17000 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 230 | 200 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 2.0 | 2.0 | % | ISO 527-2 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -30°C | 20 | 20 | kJ/m ² | |
| 23°C | 22 | 22 | kJ/m ² | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -30°C | 80 | 80 | kJ/m ² | |
| 23°C | 85 | 85 | kJ/m ² | |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Heat Deflection Temperature | | | | |
| 1.8 MPa, Unannealed | 190 | -- | °C | ISO 75-2/A |
| 8.0 MPa, Unannealed | 170 | -- | °C | ISO 75-2/C |
| Continuous Use Temperature | | | | Internal Method |
| -- ¹ | 100 | -- | °C | |
| -- ² | 150 | -- | °C | |
| Melting Temperature ³ | 200 | -- | °C | ISO 11357-3 |
| CLTE | | | | ISO 11359-2 |
| Flow | 1.0E-5 | -- | cm/cm/°C | |
| Transverse | 6.0E-5 | -- | cm/cm/°C | |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Surface Resistivity | -- | 1.0E+12 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+13 | -- | ohms·cm | IEC 60093 |
| Comparative Tracking Index | 600 | -- | V | IEC 60112 |
| Flammability | Dry | Conditioned | Unit | Test Method |
| Flammability Classification (0.800 mm) | HB | -- | | IEC 60695-11-10, -20 |
| Additional Information | Dry | Conditioned | | Test Method |


| | | | |
|----------|--------------------------|----|----------|
| ISO Type | PA1010, MH, 14-220, GF65 | -- | ISO 1874 |
| NOTE | | | |
| 1. | Long Term | | |
| 2. | Short Term | | |
| 3. | 10°C/min | | |

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