

CELANYL® A2 HH GF50 NC 1102/1

CELANYL®

Product information

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|----------------------|-------------|-----------|
| Resin Identification | PA66-GF50 | ISO 1043 |
| Part Marking Code | >PA66-GF50< | ISO 11469 |

Typical mechanical properties

| | dry/cond. | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| Tensile modulus | 18800/- | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 275/- | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.8/- | % | ISO 527-1/-2 |
| Flexural modulus | 16100/- | MPa | ISO 178 |
| Flexural strength | 400/- | MPa | ISO 178 |
| Charpy impact strength, 23°C | 120/- | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 19.5/- | kJ/m ² | ISO 179/1eA |
| Poisson's ratio | 0.33/- ^[C] | | |

[C]: Calculated

Physical/Other properties

| | dry/cond. | | |
|---------|-----------|-------------------|----------|
| Density | 1570/- | kg/m ³ | ISO 1183 |

Injection

| | |
|---------------------------------|----------|
| Drying Recommended | yes |
| Drying Temperature | 80 °C |
| Drying Time, Dehumidified Dryer | 2 - 4 h |
| Processing Moisture Content | ≤0.15 % |
| Melt Temperature Optimum | 295 °C |
| Min. melt temperature | 285 °C |
| Max. melt temperature | 305 °C |
| Screw tangential speed | ≤0.2 m/s |
| Mold Temperature Optimum | 100 °C |
| Min. mould temperature | 70 °C |
| Max. mould temperature | 120 °C |

Characteristics

| | |
|-------------------------|-----------------------------------|
| Processing | Injection Moulding |
| Special characteristics | Heat stabilised or stable to heat |