Celanese
The chemistry inside innovation™

# CELANYL® A3 GF50 NC 1102/J

CELANYL®

Car industry, Household appliances, Electrical devices.

## Product information

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

## Rheological properties

| | | | |
|---|---|---|---|
| Moulding shrinkage range, parallel | 0.3 | % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal | 0.5 - 0.6 | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | dry/cond. | | |
|---|---|---|---|
| Tensile modulus | 16000 / - | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 230 / - | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.2 / - | % | ISO 527-1/-2 |
| Charpy impact strength, 23°C | 95 / - | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 15 / - | kJ/m² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 16 / - | kJ/m² | ISO 180/1A |
| Izod impact strength, 23°C | 80 / - | kJ/m² | ISO 180/1U |
| Poisson's ratio | 0.33 / -[C] | | |

[C]: Calculated

## Thermal properties

| | dry/cond. | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 265 / * | °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 257 / * | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 262 / * | °C | ISO 75-1/-2 |

## Flammability

| | dry/cond. | | |
|---|---|---|---|
| Burning Behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 0.8 / * | mm | IEC 60695-11-10 |
| UL recognition | yes / * | | UL 94 |

## Physical/Other properties

| | dry/cond. | | |
|---|---|---|---|
| Humidity absorption, 2mm | 0.9 / * | % | Sim. to ISO 62 |
| Water absorption, 2mm | 4 / * | % | Sim. to ISO 62 |

## 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 |

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| | |
|---|---|
| Max. mould temperature | 120 °C |

## Characteristics

| | |
|---|---|
| Processing | Injection Moulding |
| Delivery form | Granules |