# CELANYL® A3 J10 GF13 NC 1102/E

CELANYL®

*Designed for automotive, suitable for any application requiring average stiffness and impact resistance, even at low temperature.*

## Product information

| | | |
|---|---|---|
| Resin Identification | PA66-I-GF13 | ISO 1043 |
| Part Marking Code | >PA66-I-GF13< | ISO 11469 |

## Rheological properties

| | | | |
|---|---|---|---|
| Molding shrinkage range, parallel | 0.4 - 0.7 | % | ISO 294-4, 2577 |
| Molding shrinkage range, normal | 0.7 - 1 | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | dry/cond. | | |
|---|---|---|---|
| Tensile modulus | 682000 / - | psi | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 13800 / - | psi | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 5.5 / - | % | ISO 527-1/-2 |
| Flexural modulus | 566000 / - | psi | ISO 178 |
| Flexural strength | 21800 / - | psi | ISO 178 |
| Charpy impact strength, 23°C | 27.1 / - | ftlb/in² | ISO 179/1eU |
| Izod notched impact strength, 23°C | 4.76 / - | ftlb/in² | ISO 180/1A |

## Thermal properties

| | dry/cond. | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 509 / * | °F | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 437 / * | °F | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 477 / * | °F | ISO 75-1/-2 |

## Flammability

| | dry/cond. | | |
|---|---|---|---|
| Burning Behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 0.0315 / * | in | IEC 60695-11-10 |
| UL recognition | yes / * | | UL 94 |

## Electrical properties

| | dry/cond. | | |
|---|---|---|---|
| Comparative tracking index | 600 / - | | IEC 60112 |

## Physical/Other properties

| | dry/cond. | | |
|---|---|---|---|
| Humidity absorption, 2mm | 1.7 / * | % | Sim. to ISO 62 |
| Water absorption, 2mm | 6.2 / * | % | Sim. to ISO 62 |
| Density | 0.0433 / - | lb/in³ | ISO 1183 |

## Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 176 | °F |
| Drying Time, Dehumidified Dryer | 2 - 4 | h |
| Processing Moisture Content | ≤0.15 | % |
| Melt Temperature Optimum | 563 | °F |
| Min. melt temperature | 545 | °F |
| Max. melt temperature | 581 | °F |



Revised: 2025-02-14 Source: Celanese Materials Database

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| | | |
|---|---|---|
| Max. screw tangential speed | ≤0.2 | m/s |
| Mold Temperature Optimum | 212 | °F |
| Min. mold temperature | 158 | °F |
| Max. mold temperature | 248 | °F |

## Characteristics

| | |
|---|---|
| Processing | Injection Molding |
| Special characteristics | High impact or impact modified, High Flow |



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