# CELANYL® A2 HH J14 BK 9005/2

CELANYL®

*Medium toughened grade, good surface appearance and good processability. Suitable for many technical applications.*

## Product information

| | | | |
|---|---|---|---|
| Resin Identification | PA66-I | | ISO 1043 |
| Part Marking Code | >PA66-I< | | ISO 11469 |
| Continuous Service Temperature | 221 | °F | IEC 60216-1 |

## Rheological properties

| | | | |
|---|---|---|---|
| Molding shrinkage range, parallel | 1.1 - 1.7 | % | ISO 294-4, 2577 |
| Molding shrinkage range, normal | 1.1 - 1.7 | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | dry/cond. | | |
|---|---|---|---|
| Tensile modulus | 326000 / - | psi | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 9400 / - | psi | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 8 / - | % | ISO 527-1/-2 |
| Tensile strain at break, 50mm/min | 40 / - | % | ISO 527-1/-2 |
| Flexural modulus | 305000 / - | psi | ISO 178 |
| Flexural strength | 11600 / - | psi | ISO 178 |
| Charpy impact strength, 23°C | N / - | ftlb/in² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 9.04 / - | ftlb/in² | ISO 179/1eA |

## Thermal properties

| | dry/cond. | | |
|---|---|---|---|
| Temperature of deflection under load, 1.8 MPa | 140 / * | °F | ISO 75-1/-2 |

## Flammability

| | dry/cond. | | |
|---|---|---|---|
| Burning Behav. at 1.5mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Burning Behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 0.1181 / * | in | IEC 60695-11-10 |

## Physical/Other properties

| | dry/cond. | | |
|---|---|---|---|
| Humidity absorption, 2mm | 1.1 / * | % | Sim. to ISO 62 |
| Water absorption, 2mm | 7.1 / * | % | Sim. to ISO 62 |
| Density | 0.0393 / - | lb/in³ | ISO 1183 |

## Emissions

| | | | |
|---|---|---|---|
| Odor test | 2.5[1] | class | VDA 270 |

[1]: A3 : 2.5 / B3 : 3.0

## Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 176 | °F |
| Drying Time, Dehumidified Dryer | 2 - 4 | h |
| Processing Moisture Content | ≤0.15 | % |
| Melt Temperature Optimum | 554 | °F |
| Min. melt temperature | 536 | °F |
| Max. melt temperature | 572 | °F |

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| | | |
|---|---|---|
| Max. screw tangential speed | ≤0.3 | m/s |
| Mold Temperature Optimum | 176 | °F |
| Min. mold temperature | 122 | °F |
| Max. mold temperature | 212 | °F |

## Characteristics

| | |
|---|---|
| Processing | Injection Molding |
| Special characteristics | High impact or impact modified, Heat stabilized or stable to heat |



Revised: 2026-06-10 Source: Celanese Materials Database

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