# CELANYL® A3 H GF30 TM1 BK 9005/K

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Car industry, Household appliances, Electrical devices.
PA66 for injection moulding, 30% glass fibre reinforced, heat stabilised and molybdenum disulfide lubricated.

## Product information

| | | | |
|---|---|---|---|
| Resin Identification | PA66-GF30 | | ISO 1043 |
| Part Marking Code | >PA66-GF30< | | ISO 11469 |
| Continuous Service Temperature | 257 | °F | IEC 60216-1 |

## Rheological properties

| | dry/cond. | | |
|---|---|---|---|
| Viscosity number | 3880 / * | in³/lb | ISO 307, 1628 |
| Molding shrinkage range, parallel | 0.3 - 0.5 | % | ISO 294-4, 2577 |
| Molding shrinkage range, normal | 0.8 - 1.1 | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | dry/cond. | | |
|---|---|---|---|
| Tensile modulus | 1.41E6 / - | psi | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 24700 / - | psi | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.7 / - | % | ISO 527-1/-2 |
| Charpy impact strength, 23°C | 23.8 / - | ftlb/in² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 3.57 / - | ftlb/in² | ISO 179/1eA |
| Ball indentation hardness, H 961/30 | 29000 / - | psi | ISO 2039-1 |

## Thermal properties

| | dry/cond. | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 500 / * | °F | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 473 / * | °F | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 482 / * | °F | ISO 75-1/-2 |

## Electrical properties

| | dry/cond. | | |
|---|---|---|---|
| Volume resistivity | 1E13 / - | Ohm.m | IEC 62631-3-1 |
| Comparative tracking index | 450 / - | | IEC 60112 |

## Physical/Other properties

| | dry/cond. | | |
|---|---|---|---|
| Humidity absorption, 2mm | 1.6 / * | % | Sim. to ISO 62 |
| Water absorption, 2mm | 6 / * | % | Sim. to ISO 62 |
| Density | 0.0491 / - | lb/in³ | ISO 1183 |

## Characteristics

| | |
|---|---|
| Processing | Injection Molding |
| Additives | Contains Molybdenum Disulfide |
| Special characteristics | Low wear / Low friction, High Flow |

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