Celanese
The chemistry inside innovation™

# CELANYL® B3 W GF30 GY 7035

CELANYL®

*General purpose grade.*

## Product information

| | | | |
|---|---|---|---|
| Resin Identification | PA6-GF30 | | ISO 1043 |
| Part Marking Code | >PA6-GF30< | | ISO 11469 |
| Continuous Service Temperature | 115 | °C | IEC 60216-1 |

## Rheological properties

| | dry/cond. | | |
|---|---|---|---|
| Viscosity number | 145 / * | $cm^3/g$ | ISO 307, 1628 |
| Moulding shrinkage range, parallel | 0.3 - 0.7 | % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal | 0.8 - 1.2 | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | dry/cond. | | |
|---|---|---|---|
| Tensile modulus | 9400 / - | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 135 / - | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.2 / - | % | ISO 527-1/-2 |
| Charpy impact strength, 23°C | 38 / - | $kJ/m^2$ | ISO 179/1eU |
| Charpy impact strength, -30°C | 33 / - | $kJ/m^2$ | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 4 / - | $kJ/m^2$ | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 3 / - | $kJ/m^2$ | ISO 179/1eA |
| Ball indentation hardness, H 961/30 | 215 / - | MPa | ISO 2039-1 |
| Poisson's ratio | 0.34 / -[C] | | |

[C]: Calculated

## Thermal properties

| | dry/cond. | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 225 / * | °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 210 / * | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 220 / * | °C | ISO 75-1/-2 |

## Flammability

| | dry/cond. | | |
|---|---|---|---|
| Burning Behav. at 1.5mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| UL recognition | yes / * | | UL 94 |

## Electrical properties

| | dry/cond. | | |
|---|---|---|---|
| Volume resistivity | 1E13 / - | Ohm.m | IEC 62631-3-1 |
| Comparative tracking index | 550 / - | | IEC 60112 |

## Physical/Other properties

| | dry/cond. | | |
|---|---|---|---|
| Humidity absorption, 2mm | 1.6 / * | % | Sim. to ISO 62 |
| Water absorption, 2mm | 6.4 / * | % | Sim. to ISO 62 |
| Density | 1350 / - | $kg/m^3$ | ISO 1183 |

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## Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 80 | °C |
| Drying Time, Dehumidified Dryer | 2 - 4 | h |
| Processing Moisture Content | ≤0.15 | % |
| Melt Temperature Optimum | 260 | °C |
| Min. melt temperature | 240 | °C |
| Max. melt temperature | 290 | °C |
| Screw tangential speed | ≤0.2 | m/s |
| Mold Temperature Optimum | 80 | °C |
| Min. mould temperature | 60 | °C |
| Max. mould temperature | 120 | °C |

## Characteristics

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