

CELANYL® B3 N HH BK 9004/Z/UV

CELANYL®

Easy processable grade, designed for the Automotive industry but also suitable for other outdoor applications.

Product information

| | | |
|----------------------|-------|-----------|
| Resin Identification | PA6 | ISO 1043 |
| Part Marking Code | >PA6< | ISO 11469 |

Rheological properties

| | | |
|------------------------------------|-------------|-----------------|
| Moulding shrinkage range, parallel | 1.2 - 1.5 % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal | 1.2 - 1.5 % | ISO 294-4, 2577 |

Typical mechanical properties

| | | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| | dry/cond. | | |
| Tensile modulus | 3200/- | MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 85/- | MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 4/- | % | ISO 527-1/-2 |
| Charpy impact strength, 23°C | N/- | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 3.5/- | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 4/- | kJ/m ² | ISO 180/1A |
| Poisson's ratio | 0.37/- ^[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 | 75/* | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 185/* | °C | ISO 75-1/-2 |

Physical/Other properties

| | | | |
|--------------------------|-----------|-------------------|----------------|
| | dry/cond. | | |
| Humidity absorption, 2mm | 2.5/* | % | Sim. to ISO 62 |
| Water absorption, 2mm | 9/* | % | Sim. to ISO 62 |
| Density | 1140/- | kg/m ³ | ISO 1183 |

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 | 235 °C |
| Max. melt temperature | 270 °C |
| Screw tangential speed | ≤0.3 m/s |
| Mold Temperature Optimum | 70 °C |
| Min. mould temperature | 50 °C |
| Max. mould temperature | 100 °C |

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Characteristics

| | |
|-------------------------|--------------------------------------------------------------------------------------------------------------|
| Processing | Injection Moulding |
| Delivery form | Granules |
| Additives | Nucleated |
| Special characteristics | Light stabilised or stable to light, U.V. stabilised or stable to weather, Heat stabilised or stable to heat |