

CELANYL® A3 GB05 NC 1102/EB

CELANYL®

Injection molding grade, easy flowing, suitable for any technical application.

Product information

| | | |
|----------------------|-------------|-----------|
| Resin Identification | PA66-GB08 | ISO 1043 |
| Part Marking Code | >PA66-GB08< | ISO 11469 |

Rheological properties

| | | |
|------------------------------------|-------------|-----------------|
| Moulding shrinkage range, parallel | 1.4 - 1.8 % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal | 1.4 - 1.8 % | ISO 294-4, 2577 |

Typical mechanical properties

| | | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| | dry/cond. | | |
| Tensile modulus | 3500/- | MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 75/- | MPa | ISO 527-1/-2 |
| Tensile strain at break, 50mm/min | 4/- | % | ISO 527-1/-2 |
| Charpy impact strength, 23°C | 20/- | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 2/- | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 2.2/- | kJ/m ² | ISO 180/1A |
| Izod impact strength, 23°C | 15/- | kJ/m ² | ISO 180/1U |
| Poisson's ratio | 0.37/- ^[C] | | |

[C]: Calculated

Thermal properties

| | | | |
|--|-----------|----|----------------|
| | dry/cond. | | |
| Melting temperature, 10°C/min | 265/* | °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 80/* | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 210/* | °C | ISO 75-1/-2 |

Physical/Other properties

| | | | |
|--------------------------|-----------|-------------------|----------------|
| | dry/cond. | | |
| Humidity absorption, 2mm | 2.1/* | % | Sim. to ISO 62 |
| Water absorption, 2mm | 7.4/* | % | Sim. to ISO 62 |
| Density | 1170/- | 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 | 295 °C |
| Min. melt temperature | 285 °C |
| Max. melt temperature | 305 °C |
| Screw tangential speed | ≤0.2 m/s |
| Mold Temperature Optimum | 100 °C |
| Min. mould temperature | 70 °C |
| Max. mould temperature | 120 °C |

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Characteristics

| | |
|-------------------------|--------------------|
| Processing | Injection Moulding |
| Delivery form | Granules |
| Special characteristics | High Flow |