

CELANYL® A2 GF15 BK 9005/1

CELANYL®

Product information

| | | |
|----------------------|-------------|-----------|
| Resin Identification | PA66-GF15 | ISO 1043 |
| Part Marking Code | >PA66-GF15< | ISO 11469 |

Typical mechanical properties

| | dry/cond. | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| Tensile modulus | 6400/- | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 115/- | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.5/- | % | ISO 527-1/-2 |
| Charpy notched impact strength, 23°C | 3.5/- | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 6.4/- | kJ/m ² | ISO 180/1A |
| Poisson's ratio | 0.35/- ^[C] | | |

[C]: Calculated

Thermal properties

| | dry/cond. | | |
|--|-----------|----|-------------|
| Temperature of deflection under load, 1.8 MPa | 243/* | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 260/* | °C | ISO 75-1/-2 |

Physical/Other properties

| | dry/cond. | | |
|---------|-----------|-------------------|----------|
| Density | 1250/- | 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 |

Characteristics

| | |
|------------|--------------------|
| Processing | Injection Moulding |
|------------|--------------------|