

CELANYL[®] A3 J10 BK 9005/E

CELANYL®

General purpose grade, suitable for any technical applications requiring good impact resistance and flexibility even at low temperature.

Product information

| T TOQUET INTOTNATION | | | |
|--|-----------------------|-------------------|-----------------|
| Resin Identification | PA66-I | | ISO 1043 |
| Part Marking Code | >PA66-I< | | ISO 11469 |
| Continuous Service Temperature | 8 | 5 °C | IEC 60216-1 |
| | - | | |
| Rheological properties | | | |
| Moulding shrinkage range, parallel | 1.2 - 1. | 6 % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal | 1.2 - 1.6 % | | ISO 294-4, 2577 |
| | | | |
| Typical mechanical properties | dry/cond. | | |
| Tensile modulus | 2400/- | MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 62/- | MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 5/- | % | ISO 527-1/-2 |
| Tensile strain at break, 50mm/min | 20/- | % | ISO 527-1/-2 |
| Charpy impact strength, 23°C | N/- | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 18/- | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 16/- | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30 °C | 10.0/- | kJ/m ² | ISO 180/1A |
| Poisson's ratio | 0.38/- ^[C] | KJ/III | 130 T80/TA |
| | 0.38/-** | | |
| [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 | 65/* | °Č | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 200/* | °C | ISO 75-1/-2 |
| remperature of deflection under load, 0.45 Mir a | 2007 | 0 | 130 73-17-2 |
| Flammability | dry/cond. | | |
| Burning Behav. at 1.5mm nom. thickn. | HB/* | class | IEC 60695-11-10 |
| 5 | | | |
| Physical/Other properties | dry/cond. | | |
| Humidity absorption, 2mm | 2.1/* | % | Sim. to ISO 62 |
| Water absorption, 2mm | 7.6/* | % | Sim. to ISO 62 |
| Density | 1090/- | kg/m³ | ISO 1183 |
| | | - | |
| Injection | | | |
| Drying Recommended | yes | | |
| Drying Temperature | 8 | 0 °C | |
| Drying Time, Dehumidified Dryer | 2 | 4 h | |
| Processing Moisture Content | ≤0.1 | | |
| Melt Temperature Optimum | 29 | | |
| Min. melt temperature | 280 °C | | |
| Max. melt temperature | 300 °C | | |
| Screw tangential speed | | 3 m/s | |
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| Mold Temperature Optimum | 80 °C |
|--------------------------|--------|
| Min. mould temperature | 50 °C |
| Max. mould temperature | 100 °C |

Characteristics

| Processing | Injection Moulding |
|-------------------------|--------------------------------|
| Delivery form | Granules |
| Special characteristics | High impact or impact modified |

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Revised: 2024-08-16 Source: Celanese Materials Database

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