

CELANYL[®] A3 HH J10 GF13 BK 9005/E CELANYL®

Car industry, Household appliances, Electrical devices.

Product information **Resin Identification** PA66-I-GF13 ISO 1043 >PA66-I-GF13< Part Marking Code ISO 11469 130 °C **Continuous Service Temperature** IEC 60216-1 **Rheological properties** dry/cond. Moulding shrinkage, parallel 0.6/-% ISO 294-4, 2577 Moulding shrinkage range, parallel 0.4 - 0.7 % ISO 294-4, 2577 0.8/-% Moulding shrinkage, normal ISO 294-4, 2577 Moulding shrinkage range, normal 0.7 - 1 % ISO 294-4, 2577 Typical mechanical properties dry/cond. Tensile modulus 4800/3200 MPa ISO 527-1/-2 Tensile stress at break, 5mm/min 100/65 MPa ISO 527-1/-2 Tensile strain at break. 5mm/min 4.5/10ISO 527-1/-2 % MPa Flexural modulus 4000/-**ISO 178** Flexural strength 160/-MPa ISO 178 Charpy impact strength, 23°C 65/>60 kJ/m² ISO 179/1eU Charpy notched impact strength, 23°C 10/15kJ/m² ISO 179/1eA 9/-Izod notched impact strength, 23°C kJ/m² ISO 180/1A kJ/m² Izod impact strength, 23°C >50/-ISO 180/1U 0.36/0.37^[C] Poisson's ratio [C]: Calculated Thermal properties dry/cond. Melting temperature, 10°C/min 265/* ISO 11357-1/-3 °C Temperature of deflection under load, 1.8 MPa 238/* °C ISO 75-1/-2 Flammability dry/cond. Burning Behav. at thickness h HB/* IEC 60695-11-10 class Thickness tested 0.8/* mm IEC 60695-11-10 Glow Wire Flammability Index, 0.75mm 650/-°C IFC 60695-2-12 650/-Glow Wire Flammability Index, 3.0mm °C IEC 60695-2-12 Electrical properties dry/cond. Comparative tracking index 500/-IEC 60112 Physical/Other properties dry/cond. Humidity absorption, 2mm 1.7/*% Sim. to ISO 62

6.2/*

1200/-

%

kg/m³

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Density

Water absorption, 2mm

Sim. to ISO 62

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	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
Ejection temperature	209 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat, Specialty appearance, High Flow

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