

CELANYL® A3 H J13 NC 1102/TT/01

CELANYL®

Toughened grade for medium impact resistance over a wide temperature range.

Product information

Resin Identification	PA66-I	ISO 1043
Part Marking Code	>PA66-I<	ISO 11469
Continuous Service Temperature	120 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.6 - 2	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.6 - 2	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	2150/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	55/-	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	60/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	N/-	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	N/-	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	16/-	kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 961/30	115/-	MPa	ISO 2039-1
Poisson's ratio	0.39/- ^[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	85/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	180/*	°C	ISO 75-1/-2

Flammability

FMVSS Class	B	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	32.4 mm/min	ISO 3795 (FMVSS 302)

Electrical properties

	dry/cond.		
Volume resistivity	1E13/-	Ohm.m	IEC 62631-3-1
Comparative tracking index	600/-		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2/*	%	Sim. to ISO 62
Water absorption, 2mm	7.2/*	%	Sim. to ISO 62
Density	1080/-	kg/m ³	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	290 °C
Min. melt temperature	280 °C
Max. melt temperature	300 °C
Screw tangential speed	≤0.3 m/s
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, Heat stabilised or stable to heat