

CELANYL® A3 H NC 1102/L

CELANYL®

Injection molding grade, easy processing, suitable for any technical application requiring long term temperature resistance.

Product information

Resin Identification	(PA66+PA6)	ISO 1043
Part Marking Code	>(PA66+PA6)<	ISO 11469
Continuous Service Temperature	135 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.5 - 1.9	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.5 - 1.9	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	2900/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	80/-	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	18/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	N/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	5/-	kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 961/30	150/-	MPa	ISO 2039-1
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	90/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	200/*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
FMVSS Class	B		ISO 3795 (FMVSS 302)

Electrical properties

	dry/cond.		
Volume resistivity	1E13/-	Ohm.m	IEC 62631-3-1
Surface resistivity	*/1E13	Ohm	IEC 62631-3-2
Electric strength	25/-	kV/mm	IEC 60243-1
Comparative tracking index, 100 drops	550		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2/*	%	Sim. to ISO 62
Water absorption, 2mm	7.5/*	%	Sim. to ISO 62
Density	1130/-	kg/m ³	ISO 1183

CELANYL® A3 H NC 1102/L

CELANYL®

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	≤0.4 m/s
Mold Temperature Optimum	70 °C
Min. mould temperature	50 °C
Max. mould temperature	90 °C

Characteristics

Processing	Injection Moulding
Special characteristics	Heat stabilised or stable to heat, High Flow