Celanese
The chemistry inside innovation™

CELANYL® A2 HH J16 NC 1102/2B

CELANYL®

Designed for Automotive Industry, suitable for all those applications that require excellent impact performance and flexibility, long term heat ageing resistance.

Product information

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

Rheological properties

Moulding shrinkage range, parallel	1.3 - 1.8	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.3 - 1.8	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	2050 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	55 / -	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10 / -	%	ISO 527-1/-2
Tensile stress at break, 50mm/min	45 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	45 / -	%	ISO 527-1/-2
Flexural modulus	2050 / -	MPa	ISO 178
Charpy notched impact strength, 23 °C	19 / -	kJ/m²	ISO 179/1eA
Izod notched impact strength, -30 °C	11.0 / -	kJ/m²	ISO 180/1A
Poisson's ratio	0.4 / -[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	50 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.9 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.8 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m³	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	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

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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