Celanese
The chemistry inside innovation™

CELANYL® A2 HH GF50 NC 1102/1

CELANYL®

Product information

Resin Identification	PA66-GF50	ISO 1043
Part Marking Code	>PA66-GF50<	ISO 11469

Typical mechanical properties

	dry/cond.		
Tensile modulus	18800 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	275 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8 / -	%	ISO 527-1/-2
Flexural modulus	16100 / -	MPa	ISO 178
Flexural strength	400 / -	MPa	ISO 178
Charpy impact strength, 23 °C	120 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23 °C	19.5 / -	kJ/m²	ISO 179/1eA
Poisson's ratio	0.33 / -[C]		

[C]: Calculated

Physical/Other properties

	dry/cond.		
Density	1570 / -	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	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

Characteristics

Processing	Injection Moulding
Special characteristics	Heat stabilised or stable to heat

Revised: 2024-01-23 Source: Celanese Materials Database