

# CELANYL® A3 HH GF33 NC 1102/HW CELANYL®

Car industry, Household appliances, Electrical devices.

## Product information

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Resin Identification	PA66-GF33		ISO 1043
Part Marking Code	>PA66-GF33<		ISO 11469
Continuous Service Temperature	140	°C	IEC 60216-1
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Rheological properties	dry/cond.		
Viscosity number	140/*	cm³/g	ISO 307, 1628
Moulding shrinkage, parallel	0.3/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.5/-	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	10300/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	195/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.7/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	87/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	10.9/-	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	12/-	kJ/m <sup>2</sup>	ISO 180/1A
Izod impact strength, 23°C	>60/-	kJ/m <sup>2</sup>	ISO 180/1U
Poisson's ratio	0.34/- <sup>[C]</sup>	NO/III	100 100/10
	0.547-		
[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	250/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	260/*	°C	ISO 75-1/-2
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Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.4/*	%	Sim. to ISO 62
Water absorption, 2mm	5.9/*	%	Sim. to ISO 62
Density	1390/-	kg/m³	ISO 1183
Injection			
Drying Recommended	Voc		
Drying Temperature	yes	°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content			
Melt Temperature Optimum	≤0.15 % 295 °C		
Min. melt temperature	295		
Max. melt temperature	305		
Screw tangential speed	≤0.2		
Mold Temperature Optimum	<u>≤</u> 0.2 100		
Min. mould temperature		°C	
Max. mould temperature	120		
	120	0	

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### **Characteristics**

Processing Delivery form Special characteristics Injection Moulding Granules Heat stabilised or stable to heat

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#### Revised: 2024-08-16 Source: Celanese Materials Database

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