



CELANYL® A3 HHR3 GF35 BK 9005 **CELANYL®**

Designed for Automotive industry, specifically to withstand contact with coolant and oils in extreme thermal conditions.

Prod	uct	ıntoı	rmat	เดท

Resin Identification	PA66-GF35	ISO 1043
Part Marking Code	>PA66-GF35<	ISO 11469
-		
Rheological properties		

Rheological properties

Moulding shrinkage range, parallel	0.3 - 0.6 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9 %	ISO 294-4, 2577

Typical mechanical properties dry/cond.

Tensile modulus	11000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	205/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.2/-	%	ISO 527-1/-2
Flexural modulus	11000/-	MPa	ISO 178
Flexural strength	300/-	MPa	ISO 178
Charpy impact strength, 23°C	93/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	14/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	16/-	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	80/-	kJ/m²	ISO 180/1U
Poisson's ratio	0.34/- ^[C]		

Thermal properties

[C]: Calculated

Melting temperature, 10°C/min	262/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	250/*	°C	ISO 75-1/-2

dry/cond.

dry/cond.

Physical/Other properties

10/- kg/m³ ISO 1	1183
(D/- kg/m³ ISO 1

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

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

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Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat, Hydrolysis resistant, Chemical resistant

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