

CELANYL® A3 HH BK 9005/2

CELANYL®

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

Product information

Resin Identification	PA66	ISO 1043
Part Marking Code	>PA66<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.3 - 1.7	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.3 - 1.7	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	3300/1500	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	88/55	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	3.5/5	%	ISO 527-1/-2
Tensile strain at break, 50mm/min	5/35	%	ISO 527-1/-2
Flexural modulus	3100/-	MPa	ISO 178
Flexural strength	90/-	MPa	ISO 178
Charpy notched impact strength, 23 °C	3.5/10	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.37/0.43 ^[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	85/*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-2/*	class	IEC 60695-11-10

Electrical properties

	dry/cond.		
Volume resistivity	1E12/-	Ohm.m	IEC 62631-3-1
Surface resistivity	*/1E12	Ohm	IEC 62631-3-2
Comparative tracking index	550/-		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.3/*	%	Sim. to ISO 62
Water absorption, 2mm	8.4/*	%	Sim. to ISO 62
Density	1140/-	kg/m ³	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

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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
Delivery form	Granules
Special characteristics	Heat stabilised or stable to heat

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Stellantis	B62 0300 / 61/U4/AD1/W1/219E/13/C2B	01378_15_01937
VW Group	VW 50127	*Best Fitting Grade To PA66-1, Not Officially Approved
VW Group	VW 50133	*Best Fitting Grade To PA66-1-A, Not Officially Approved