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	266	°F	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	3880 / *	in³/lb	ISO 307, 1628
Molding shrinkage range, parallel	1.3 - 1.7	%	ISO 294-4, 2577
Molding shrinkage range, normal	1.3 - 1.7	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	479000 / 218000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	13000 / 8000	psi	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	450000 / -	psi	ISO 178
Flexural strength	13100 / -	psi	ISO 178
Charpy notched impact strength, 23°C	1.66 / 4.76	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	509 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	185 / *	°F	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	0.0412 / -	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	176	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	554	°F
Min. melt temperature	536	°F
Max. melt temperature	572	°F

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

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Max. screw tangential speed	≤0.4	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	122	°F
Max. mold temperature	194	°F

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

Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat

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