



CELANYL® A3 H GF15 TP05S BK 9005/Z CELANYL®

Lubricated grade with improved wear resistance, PTFE free.

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Resin Identification	PA66-GF15		ISO 1043
Part Marking Code	>PA66-GF15<		ISO 11469
Continuous Service Temperature		°C	IEC 60216-1
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Rheological properties			
Moulding shrinkage range, parallel	0.5 - 0.9	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 - 1.1	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	5500/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	105/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/-	%	ISO 527-1/-2
Flexural modulus	5000/-	MPa	ISO 178
Flexural strength	150/-	MPa	ISO 178
Charpy impact strength, 23°C	30/-	kJ/m²	ISO 179/1eU
Izod notched impact strength, 23°C	6/-	kJ/m²	ISO 180/1A
Poisson's ratio	0.35/- ^[C]	110/111	100 100/1/1
[C]: Calculated	0.007		
[O]. Odliculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	225/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	240/*	°C	ISO 75-1/-2
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Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10
Electrical properties	dry/cond.		
Volume resistivity	1E13/-	Ohm.m	IEC 62631-3-1
Surface resistivity	*/1E13	Ohm	IEC 62631-3-2
Electric strength	21/-	kV/mm	IEC 60243-1
Comparative tracking index	500/-		IEC 60112
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.6/*	%	Sim. to ISO 62
Water absorption, 2mm	6/*	%	Sim. to ISO 62
Density	1200/-	kg/m ³	ISO 1183
Donotty	1200/-	Ng/III	130 1103

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





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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

Delivery form Granules

Special characteristics Heat stabilised or stable to heat, Low wear / Low friction

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