



CELANYL® A3 W GF55 BK 9005/C CELANYL®

Designed for maximum stiffness, easy processable.

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Proo	i ict ii	nform	ation

1 Todact information			
Resin Identification	(PA66+PA6)-GF55		ISO 1043
Part Marking Code	>(PA66+PA6)-0		ISO 11469
Continuous Service Temperature	13	30 °C	IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.1 - 0.4	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 - 0.8	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	19000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	230/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	N/-	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	N/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	14/-	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30 °C	10/-	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 961/30	270/-	MPa	ISO 2039-1
Poisson's ratio	0.33/- ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10 ° C/min	260/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	240/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250/*	°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	0.8/*	mm	IEC 60695-11-10
FMVSS Class	DNI		ISO 3795 (FMVSS 302)
Electrical properties	dry/cond.		
Volume resistivity	1E13/-	Ohm.m	IEC 62631-3-1
Comparative tracking index	550/-		IEC 60112
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Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.4/*	%	Sim. to ISO 62
Water absorption, 2mm	4/*	%	Sim. to ISO 62
Density	1650/-	kg/m³	ISO 1183

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Revised: 2025-04-18 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
Ejection temperature	199	°C

Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat, High Flow

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