



CELANYL® A3 CF30 BK 9005

CELANYL®

Car industry, Household appliances, Electrical devices.

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Resin Identification Part Marking Code Continuous Service Temperature	PA66-CF30 >PA66-CF30< 100	°C	ISO 1043 ISO 11469 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 - 0.9	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	21500/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	245/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	N/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	9/-	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 961/30	255/-	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	250/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250/*	°C	ISO 75-1/-2
Electrical properties	dry/cond.		
Volume resistivity	1.5/-	Ohm.m	IEC 62631-3-1
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.3/*	%	Sim. to ISO 62
Water absorption, 2mm	6/*	%	Sim. to ISO 62
Density	1250/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature		°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	≤0.15	%	
Melt Temperature Optimum	295		
Min. melt temperature	285		
Max. melt temperature	305	°C	

Printed: 2025-05-29 Page: 1 of 3

≤0.2 m/s 100 °C

70 °C

Revised: 2024-11-14 Source: Celanese Materials Database

Screw tangential speed

Min. mould temperature

Mold Temperature Optimum





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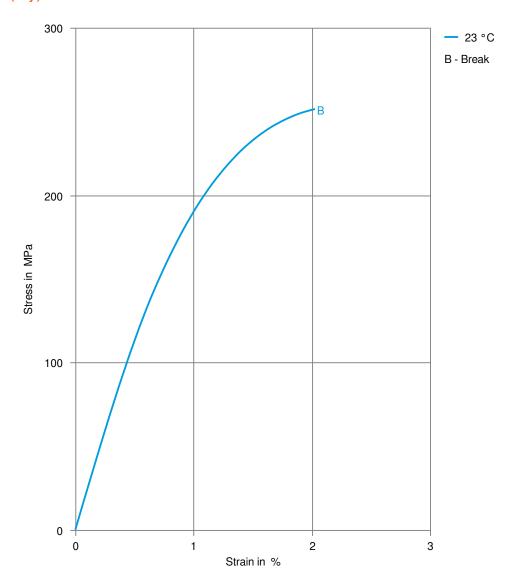
Max. mould temperature 120 °C

Characteristics

Processing Injection Moulding

Special characteristics Increased electrical conductivity, Static dissipative, Heat stabilised or stable to heat

Stress-strain (dry)



Printed: 2025-05-29 Page: 2 of 3

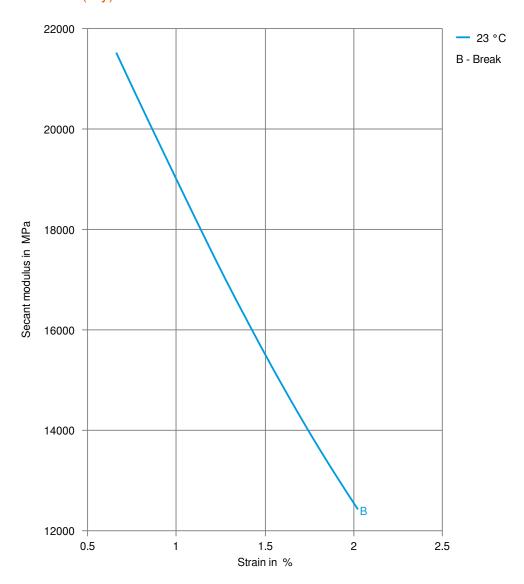
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Secant modulus-strain (dry)



Printed: 2025-05-29 Page: 3 of 3

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