



CELANYL® A3 GF60 BK 9005/N

CELANYL®

Car industry, Household appliances, Electrical devices.

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Resin Identification Part Marking Code	PA66-GF60 >PA66-GF60<		ISO 1043 ISO 11469
Continuous Service Temperature	110	°C	IEC 60216-1
Rheological properties	dry/cond.		
Moulding shrinkage, parallel	0.2/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.4/-	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	20500/15200	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	245/173	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3/2.7	%	ISO 527-1/-2
Flexural modulus	19500/-	MPa	ISO 178
Flexural strength	380/- 70/-	MPa kJ/m²	ISO 178 ISO 179/1eU
Charpy impact strength, 23°C Charpy notched impact strength, 23°C	70/- 16.5/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	13/-	kJ/m ²	ISO 179/16A
Poisson's ratio	0.371/- ^[C]	110/111	100 100/1/1
[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	255/*	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	17 ^[1] /*	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	95.3 ^[1] /*	E-6/K	ISO 11359-1/-2
[1]: Temperature range: -30°C to 150°C			
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Thickness tested	1.6/*	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
Electrical properties	dry/cond.		
Electric strength	22/-	kV/mm	IEC 60243-1
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	0.8/*	%	Sim. to ISO 62
Water absorption, 2mm	3.2/*	%	Sim. to ISO 62
Density	1700/-	kg/m³	ISO 1183

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





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VDA Properties

Odour 4 class VDA 270

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

Special characteristics Heat stabilised or stable to heat, Specialty appearance, High Flow

Automotive

OEM STANDARD ADDITIONAL INFORMATION

Stellantis - Chrysler MS.50017 / CPN-5476 Black; ASTMD6779PA0110G60A67480

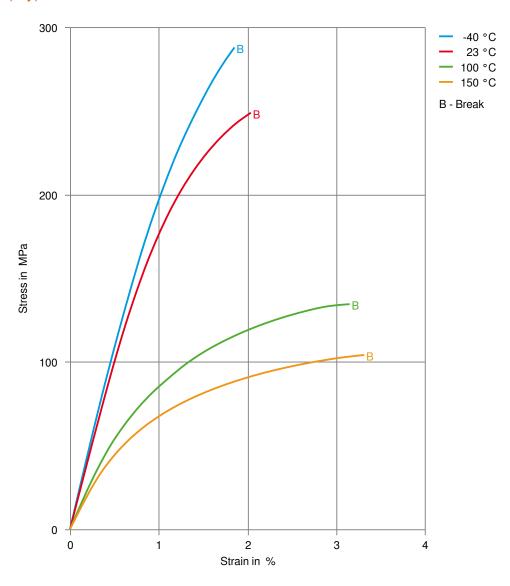
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Stress-strain (dry)

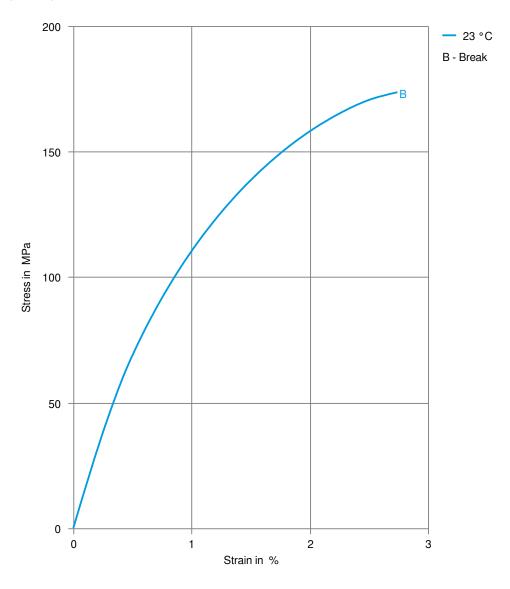


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Stress-strain (cond.)

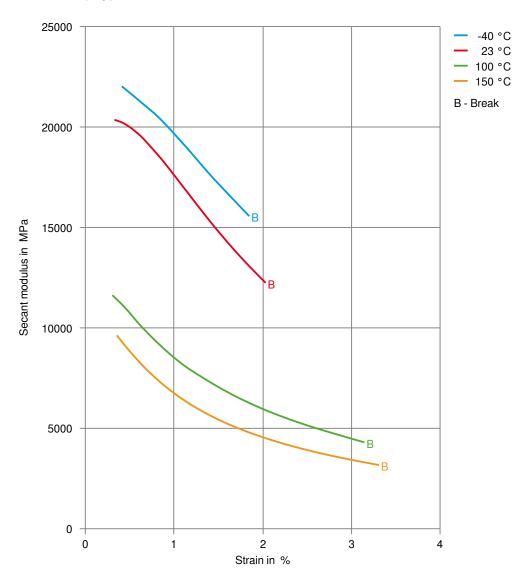


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Secant modulus-strain (dry)

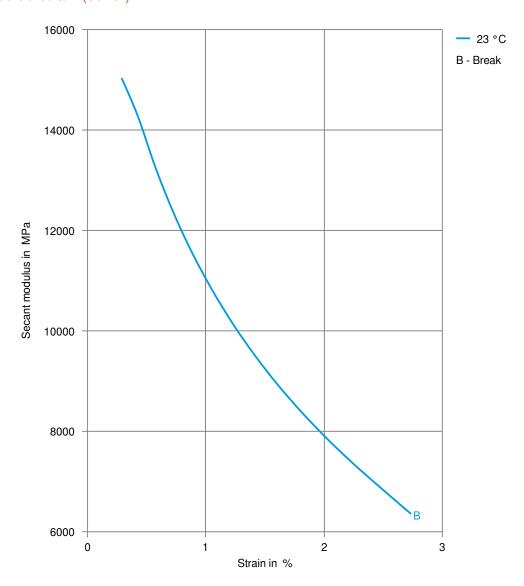


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Secant modulus-strain (cond.)



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