

CELANYL® A3 HH J10 GF13 NC 1102/E CELANYL®

Car industry, Household appliances, Electrical devices.

Product information Resin Identification	PA66-I-GF13		ISO 1043
Part Marking Code	>PA66-I-GF13<		ISO 11469
Continuous Service Temperature	130	°C	IEC 60216-1
Rheological properties	dry/cond.		
Moulding shrinkage, parallel	0.6/-	%	ISO 294-4, 2577
Moulding shrinkage range, parallel	0.4 - 0.7	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.8/-	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	5200/3000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	110/70	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	5/10	%	ISO 527-1/-2
Flexural modulus	4900/2700	MPa	ISO 178
Flexural strength Charpy impact strength, 23°C	180/95 70/>80	MPa kJ/m²	ISO 178 ISO 179/1eU
Charpy notched impact strength, 23°C	12/20	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	10/-	kJ/m ²	ISO 180/1A
Poisson's ratio	0.35/0.37 ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	262/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	235/*	°C	ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
Glow Wire Flammability Index, 0.75mm	650/-	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	650/-	°C	IEC 60695-2-12
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.7/*	%	Sim. to ISO 62
Water absorption, 2mm	6.2/*	%	Sim. to ISO 62
Density	1200/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature		°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	≤0.15	%	

295 °C

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Melt Temperature Optimum





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

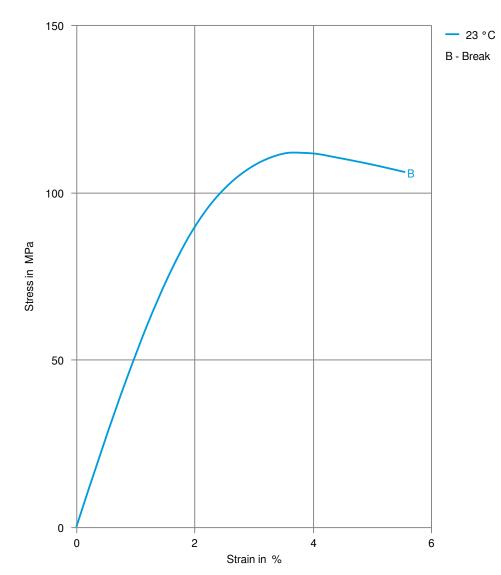
Processing

Injection Moulding

Special characteristics

High impact or impact modified, Heat stabilised or stable to heat

Stress-strain (dry)

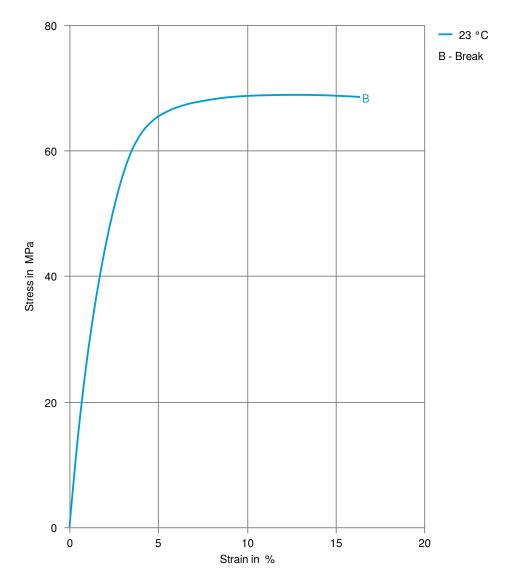


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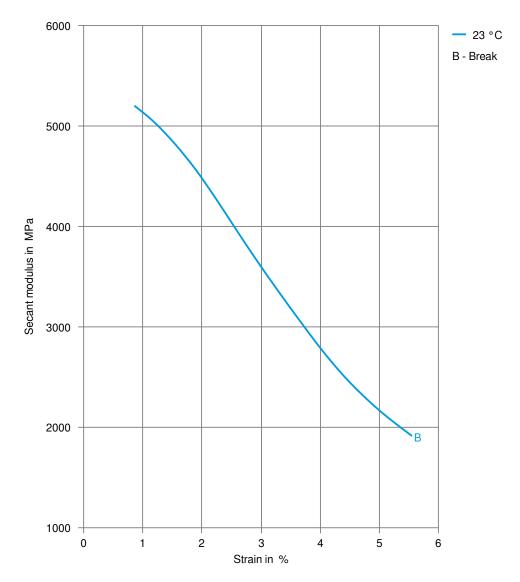
Stress-strain (cond.)







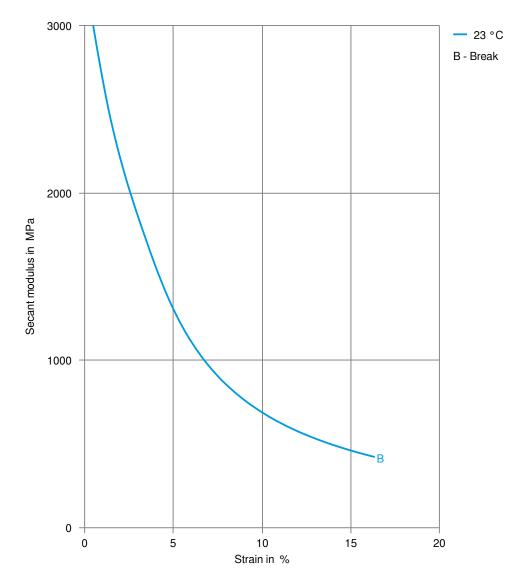
Secant modulus-strain (dry)







Secant modulus-strain (cond.)



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