



CELANYL® A3 HH GCF2010 BK 9005/1 CELANYL®

Product information

Resin Identification	PA66-(CF+GF)3 0		ISO 1043
Part Marking Code	>PA66-(CF+GF)30<		ISO 11469
Typical mechanical properties	dry/cond.		
Tensile modulus	14600/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	210/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3/-	%	ISO 527-1/-2
Flexural modulus	13800/-	MPa	ISO 178
Flexural strength	300/-	MPa	ISO 178
Charpy impact strength, 23°C	65.7/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	8/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	10/-	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	56.4/-	kJ/m²	ISO 180/1U
Poisson's ratio	0.33/- ^[C]		
[C]: Calculated			
Thermal properties			
Thermal conductivity, flow	1.46	W/(m K)	ISO 22007-2
Thermal conductivity, crossflow		W/(m K)	ISO 22007-2
Thermal conductivity, through plane	0.65	W/(m K)	ISO 22007-2
Physical/Other properties	dry/cond.		
Density	1330/-	kg/m³	ISO 1183
Injection			
Drying Recommended	VOC		
Drying Temperature	yes 80	°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	2-4 ≤0.15		
Melt Temperature Optimum	295		
Min. melt temperature	285		
with more temperature	200	-	

Characteristics

Max. melt temperature Screw tangential speed

Min. mould temperature

Max. mould temperature

Mold Temperature Optimum

Processing Injection Moulding

Special characteristics Static dissipative, Heat stabilised or stable to heat, Laser Markable

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305 °C

≤0.2 m/s

100 °C

70 °C

120 °C

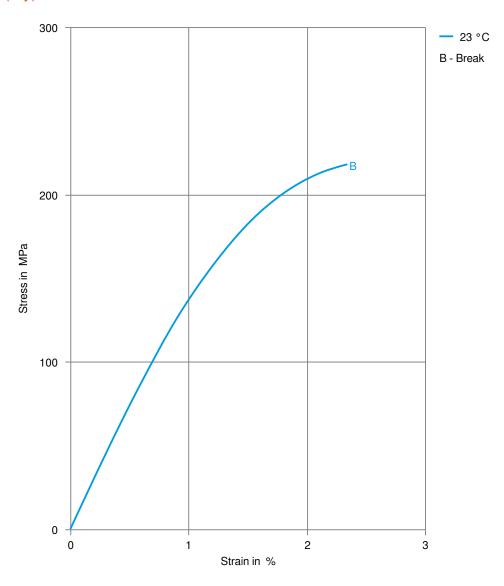
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Stress-strain (dry)



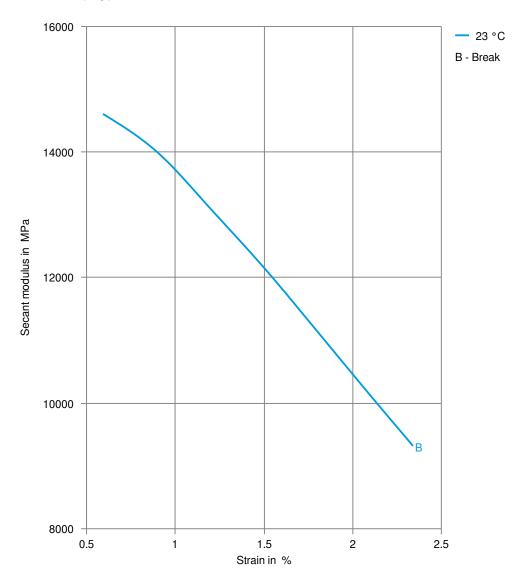
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Secant modulus-strain (dry)



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