



CELANYL® A3 H BK 9005

CELANYL®

Injection molding grade, easy flowing, suitable for any technical application requiring long term temperature resistance.

μ	rc	M	tι	ni	\cap r	m	at	ion

Resin Identification Part Marking Code Continuous Service Temperature	(PA66+PA6) >(PA66+PA6)< 140	°C	ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	145/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.5 - 1.9	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.5 - 1.9	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	3000/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	80/50 ^[C]	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	20 / - ^[C]	%	ISO 527-1/-2
Charpy impact strength, 23°C	50/>50	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.8/15 ^[C]	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 961/30	150/-	MPa	ISO 2039-1
Poisson's ratio	0.37/- ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	265/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	80/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	210/*	°C	ISO 75-1/-2
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	2.4/*	%	Sim. to ISO 62
Water absorption, 2mm	8.4/*	%	Sim. to ISO 62
Density	1130/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature	80	°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	≤0.15		
Melt Temperature Optimum	290		
Min. melt temperature	280		
Max. melt temperature	300	Ü	

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≤0.4 m/s

70 °C

50 °C 90 °C

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Screw tangential speed

Min. mould temperature

Max. mould temperature

Mold Temperature Optimum





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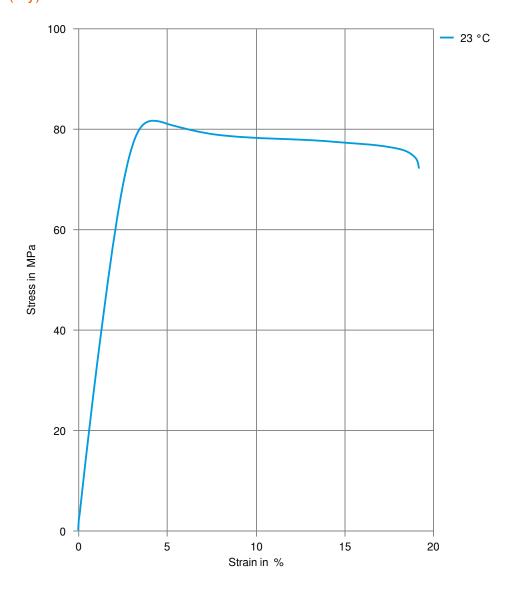
Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat, High Flow

Stress-strain (dry)



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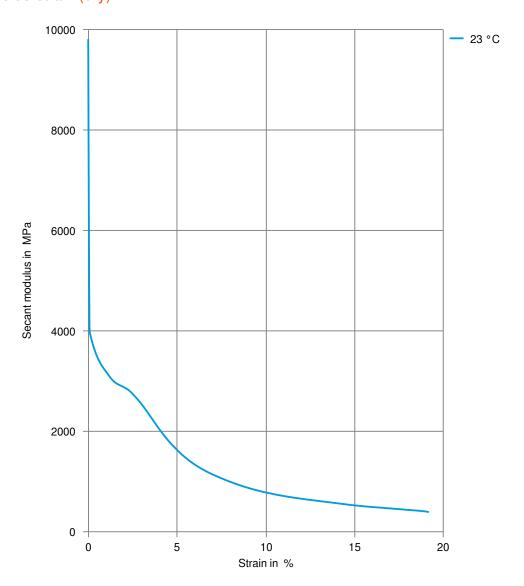
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Secant modulus-strain (dry)



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