



CELANYL®

Car industry, Household appliances, Electrical devices.

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Resin Identification	PA66-CF20		ISO 1043
Part Marking Code	>PA66-CF20<	. 0	ISO 11469
Continuous Service Temperature	100	°C	IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	145/*	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	15500/9200	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	210/150	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.7/6.6	%	ISO 527-1/-2
Charpy impact strength, 23°C	60/-	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	38/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	8/-	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5/-	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 961/30	215/-	MPa	ISO 2039-1
Poisson's ratio	0.33/- ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
			100 44057 440
Melting temperature, 10 °C/min	260/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	240/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250/*	30	ISO 75-1/-2
Electrical properties	dry/cond.		
Volume resistivity	1000/-	Ohm.m	IEC 62631-3-1
Surface resistivity	*/10000	Ohm	IEC 62631-3-2
Electric strength	2.4/-	kV/mm	IEC 60243-1
Comparative tracking index	90/-		IEC 60112
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.8/*	%	Sim. to ISO 62
Water absorption, 2mm	6.5/*	%	Sim. to ISO 62
Density	1200/-	kg/m³	ISO 1183
Injection			
-			
Drying Recommended	yes	°C	
Drying Temperature			
Drying Time, Dehumidified Dryer	2 - 4 ≤0.15		
Processing Moisture Content	≥0.15	70	

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295 °C

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Melt Temperature Optimum





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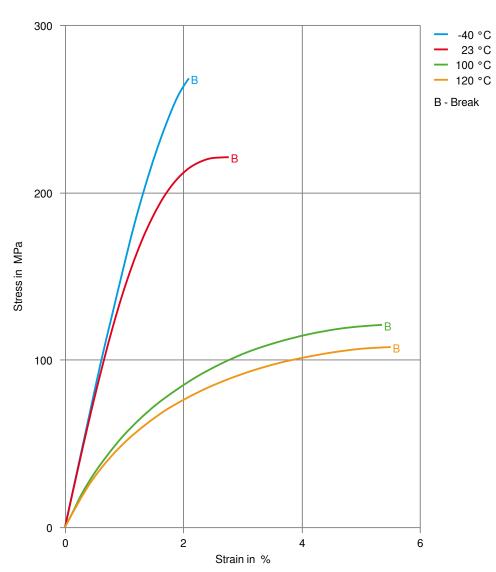
Min. melt temperature	285	°C
Max. melt temperature	305	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	70	°C
Max. mould temperature	120	°C

Characteristics

Processing Injection Moulding

Special characteristics Static dissipative, Heat stabilised or stable to heat

Stress-strain (dry)



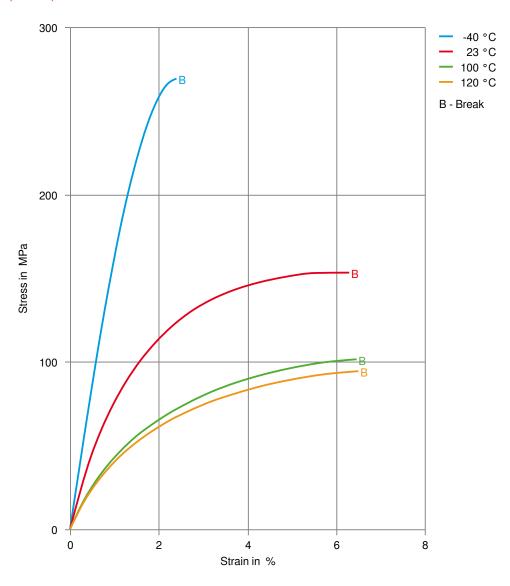
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Stress-strain (cond.)

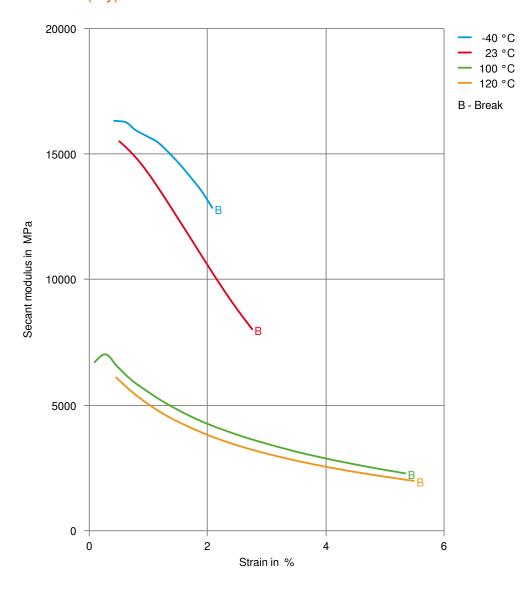


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Secant modulus-strain (dry)

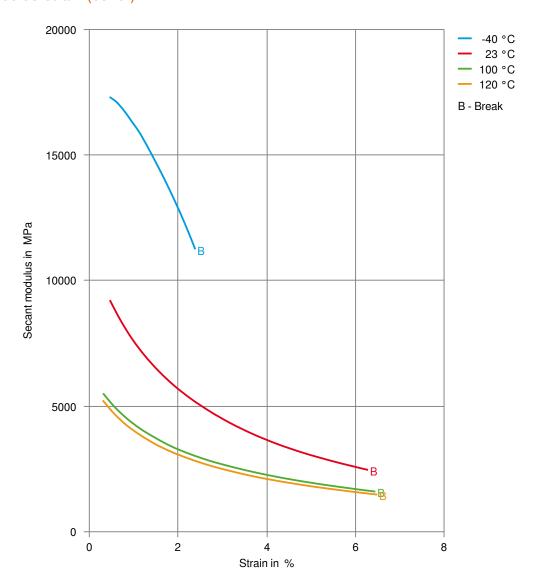


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Secant modulus-strain (cond.)



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