



CELANYL® A3 GF15 NC 1102/Z CELANYL®

General purpose grade

Product information			
Resin Identification	PA66-GF15		ISO 1043
Part Marking Code Continuous Service Temperature	>PA66-GF15< 105	۰C	ISO 11469 IEC 60216-1
Continuous Service Temperature	105		IEC 00210-1
Rheological properties	dry/cond.		
Moulding shrinkage, parallel	0.6/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.9/-	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	6200/4500 ^[C]	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	120/80 ^[C]	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min Flexural modulus	2.5/6 5700/-	% MPa	ISO 527-1/-2 ISO 178
Flexural strength	170/-	MPa	ISO 178 ISO 178
Charpy impact strength, 23°C	30/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.5/6.5 ^[DS]	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	5/-	kJ/m²	ISO 180/1A
Poisson's ratio	0.35/0.36 ^[C]		
[C]: Calculated			
[DS]: Derived from similar grade			
Thermal properties	dry/cond.		
Temperature of deflection under load, 1.8 MPa	245/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250/*	°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
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.8/*	%	Sim. to ISO 62
Water absorption, 2mm	6.7/*	%	Sim. to ISO 62
Density	1230/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature	80 °C		
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content Melt Temperature Optimum	≤0.15 % 295 °C		
Min. melt temperature	295		
Max. melt temperature	305		
Screw tangential speed	≤0.2		

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Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules

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