

CELANYL[®] A2 HH /UV/2

Unfilled Polyamide 66 compound, heat and UV stabilized. General purpose grade, easy processing, fast cycles, suitable for outdoor use.

Product information			
Part Marking Code	>PA66<		ISO 11469
Rheological properties			
Moulding shrinkage range, parallel	1.2 - 1.7	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.2 - 1.7	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile Modulus	3250/-	MPa	ISO 527-1/-2
Yield stress, 50mm/min	85/-	MPa	ISO 527-1/-2
Yield strain, 50mm/min	4 / -	%	ISO 527-1/-2
Strain at break, 50mm/min	>10/-	%	ISO 527-1/-2
Flexural Modulus	3100/-	MPa	ISO 178
Charpy impact strength, 23°C	>50/-	kJ/m²	ISO 179/1eU
Izod notched impact strength, 23°C	4/-	kJ/m²	ISO 180/1A
Thermal properties			
Melting temperature, 10°C/min	265	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	70	°C	ISO 75-1/-2
Other properties			
Humidity absorption, 2mm	2.3	%	Sim. to ISO 62
Water absorption, 2mm	8.1		Sim. to ISO 62
Density		kg/m ³	ISO 1183
	-	0	

Additional information

Injection molding

The following conditions apply to a standard injection molding process. Machine temperatures: barrel 265-290°C (PA66), 235-270°C (PA6), nozzle and hot runners up to 300°C (up to 290°C products with flame retardants). Mold temperatures: 60-80°C, (80-100°C highly reinforced grades). Back pressure: typically, 5-10 bar (hydraulic pressure). Temperatures exceeding 300°C and long residence time could lead to additives degradation and brittleness of the material. In case of gas generation in the melt, please verify moisture content and processing temperatures. Usage of regrind is possible depending on the molded part characteristics. For further details, please refer to the document 'Instructions for injection molding' or contact our technical support team.

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Processing Texts	
Injection molding	The following conditions apply to a standard injection molding process. Machine temperatures: barrel 265-290°C (PA66), 235-270°C (PA6), nozzle and hot runners up to 300°C (up to 290°C products with flame retardants). Mold temperatures: 60-80°C, (80-100°C highly reinforced grades). Back pressure: typically, 5-10 bar (hydraulic pressure). Temperatures exceeding 300°C and long residence time could lead to additives degradation and brittleness of the material. In case of gas generation in the melt, please verify moisture content and processing temperatures. Usage of regrind is possible depending on the molded part characteristics. For further details, please refer to the document 'Instructions for injection molding' or contact our technical support team.
Injection molding Preprocessing	PA materials, stocked in a moisture-proof packaging, can be processed without drying; however, it is always recommended drying the product that comes from a large package (e.g. Octabin). The moisture content suggested for the injection molding process should be lower than 0.15%, according to the grade and to the molded part characteristics. The materials containing flame retardants should have moisture content below 0.10%. Red phosphorous containing grades must always be dried below 0.08%. The drying time depends on the moisture content and the drying conditions. Typically, 4-8 hours at 80-90°C using dehumidified air (dew point of -20°C) are suitable conditions for a starting moisture content of 0.20%-0.40%.
Injection molding Postprocessing	PA materials reach their final performance with a water content of about 1.5 to 3.5% by weight, depending on the type. This percentage corresponds to the point of equilibrium between the rates of absorption and desorption of moisture. After molding, in favorable environmental conditions, a part can quickly absorbs moisture up to 0.5-1.0%, while the equilibrium will be reached during its life. A conditioning treatment can accelerate further the initial water absorption of the molded parts. Conditioning is usually carried out in hot and humid environment (for example 50°C, 100% RH), inside climatic chambers. Slight dimensional variations (increase in volume due to the water absorbed) must be considered, especially in unfilled grades. Post-treatments of parts may also include the annealing (60-80°C in oven, up to four hours). This procedure can be useful to relax any internal stresses.