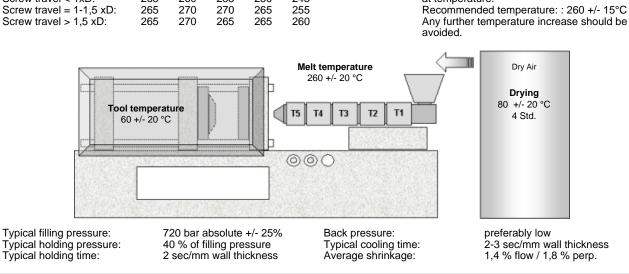
Processing Recommendations



I	Product	: PEN	TALLO	Y BP H	l natural			
Des	cription	PA6- : resis	⊦PP-alle tance	oy, unre	einforced	, heat stabilise	d, improved chemical	Product-No: 6100.004
ISO 1874/1-Desi	gnation	: PA 6	+PP,,N	IHR,S1	4-030			
1. Preparation, Drying								
Preparation: Drying:			conde Dry pr Recon	nsation oduct b nmende	on the p efore pro ed drying	ellets. ocessing with a temperature 8	0 °C, -drying time 4 hours	o avoid
Regrinds:			In gen	eral, the ndividua	e use of		+/- 0,04 % nd (runners) is possible, but n al also needs careful drying pr	
2. Plasticising and dos	sing							
General: Dosing screw:			 Polymers should always be plastisized as gentle as possible. Set screw speed at such a level, that the available cooling time is used by about 80% to allow the polymer to be molten by the heaters. For processing our engineering resins, we recommend dosing screws with a compression ratio of about 1: 2,2 - 2,8. The feed zone should be relatively long (50-60% L), compression zone rather short (20-25% L) to avoid excessive wear in the compression zone itself. L/D ratio =20 +/-2. We also recommend the use of high-alloy steels which are corrosion resistant. A regular maintenance of the check-valve is recommended. PENTAC recommends the use of filter nozzles generally. 					
Dosing speed:							ed < 200 mm/min.	
3. Recommended Proc	essing	Paran	neters					
Screw travel < 1xD: Screw travel = 1-1,5 xD:	T5 265 265	T4 260 270	T3 255 270	T2 250 265	T1 245 255	Hot runner:	The hot runner should only ma at temperature. Recommended temperature: :	



4. Accidental release measures

Avoid spilled product, may cause slipping surfaces. Dispose of any product according to local regulations.
br
onot allow product to enter drainage system, surface or ground water.

Processing Recommendations



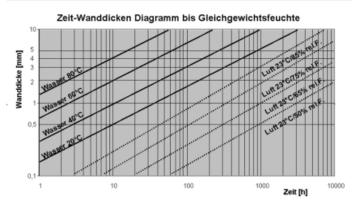
Product:	PENTALLOY BP H natural				
Description:	PA6+PP-alloy, unreinforced, heat stabilised, improved chemical resistance	Product-No: 6100.004			
ISO 1874/1-Designation:	PA 6+PP,,MHR,S14-030				
5. Handling and storage					
Handling: Work place: Storage:	Do not overheat material to avoid formation of potential fumes. Ensure good ventilation / exhaustion at work place. Dry and cool storage, protect from humidity, water, heat and direct sunlight.				
6. Stability and reactivity					
Melting temperature/range: Ignition temperature:	222 °C > 400°C				

7. Shrinkage

The shrinkage of a polymer material is no constant value. Besides the formulation, the shrinkage depends on: - wall thickness of the part, -holding pressure, -cooling time, -pressure loss in runner and part, -fiber orientation. The values given (chapter 3) represent comparative values, that should be taken as indicative only. Shrinkage can be reduced by:

-increase of holding pressure, -reduction of melt temperature, -increase of holding time, - increase of cooling time, - reduction of wall thickness (avoid mass accumulation). The injection speed and tool temperature may show different effects on shrinkage, this needs to be studied in each individual case. Please ensure a sufficient holding time (determination of sealing time by constant part weight)

8. Conditionning



Moisture pick-up at equilibrium (23°C/ 50% rel. humidity):

Polyamides are changing their glass transition temperature as a function of the humidity absorbed and hence some mechanical properties. The moisture absorption is depending on the storage conditions, time and wall thickness. The diagram shall give some base values about moisture pick-up. For any accelerated conditionning, the specialists of PENTAC Polymer may give you some further advise.

Polyesters only absorb very little moisture and do not require any conditionning

PENTALLOY BP H natur, 1,5 (change of mass)

9.

The information herein contained describe the products based on our real knowledges. They are offered in good faith but without guarantee and can be changed without previous notice. The user shall always ensure to meet any local regulation pertaining to the product, industrial hygienic measures and working security. The recommendations given do not replace any optimisation required for each individual part and should be understood as indicative values.

Last update: 05.07.2018