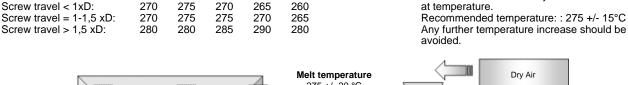
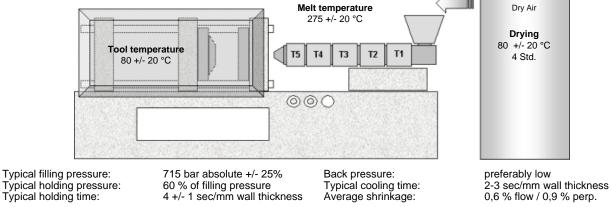
## **Processing Recommendations**



Product:	PENTAMID	B S G\	/B16 H2	R black		
Description:	low viscosity bubble reinf	cosity, high heat stabilized polyamide reinforced, recyclate including			e 6, glass fiber and glass	Product-No 6039.012
ISO 1874/1-Designation:	PA 6,(GF+G	B)16 (F	R),MHRC	S12-050		
1. Preparation, Drying						
Preparation: Drying: Regrinds:	conder Dry pro Recom Recom In gene	nsation oduct b imende imende eral, the ndividua	on the pe efore pro- d drying d moisture suse of 1	ellets. cessing with a temperature 8 re level 0,09 0 - 20% regrir	0 °C, -drying time 4 hours	eeds testing ir
2. Plasticising and dosing						
General: Polymers should always be plastisized as gentle a such a level, that the available cooling time is use polymer to be molten by the heaters.						
Dosing speed:	<ul> <li>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.</li> <li>L/D ratio =20 +/-2. We also recommend the use of high-alloy steels which are corrosion resistant.</li> <li>A regular maintenance of the check-valve is recommended. PENTAC recommends the use of filter nozzles generally.</li> <li>Recommended rotational screw speed &lt; 200 mm/min.</li> </ul>					
3. Recommended Processing	Parameters					
Screw travel < 1xD: 270	<b>T4 T3</b> 275 270	<b>T2</b> 265	<b>T1</b> 260	Hot runner:	The hot runner should only ma at temperature.	aintain the melt





#### 4. Accidental release measures

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

# **Processing Recommendations**



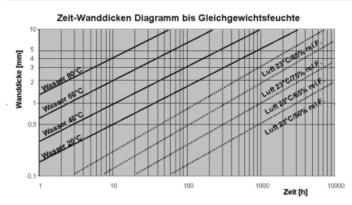
Product:	PENTAMID B S GVB16 H2 R black				
Description:	low viscosity, high heat stabilized polyamide 6, glass fiber and glass bubble reinforced, recyclate including	Product-No: 6039.012			
ISO 1874/1-Designation:	PA 6,(GF+GB)16 (R),MHRC,S12-050				
5. Handling and storage					
Handling: Work place: 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

PENTAMID B S GVB16 H2 R schwarz, 2,3 (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: 23.03.2021