



## TECHNICAL DATASHEET

Code : FOR.QUA.06  
Version : 00  
Date of application : 01-11-2018

### HERMAID PA6 1001 GF50

Product Description: Polyamide (PA6), lubricated, reinforced with 50% of glass fiber

Properties	Condition	Min/Max	Units	Standards
<b>Physical properties</b>				
Density	23°C	1.55-1.57	g/cm <sup>3</sup>	ISO1183
Melt –Flow-Index			-	ISO1133
Humidity	110°C	<=0.1	%	ISO15512
Ash Content	625°C	48-52	%	ISO
<b>Mechanical properties</b>				
Tensile modulus	50mm/min	14500-14600	MPa	ISO 527-2
Tensile stress at break	5mm/min	200-210	MPa	ISO 527-2
Elongation at break	5mm/min	2-3	%	ISO 527-2
Flexural modulus	2mm/min	14400-14500	MPa	ISO 178
Flexural strength	5mm/min	350-360	MPa	ISO 178
Izod impact strength	5J	-	Kj/m <sup>2</sup>	ISO180
Izod notched impact strength	5J	18-19	Kj/m <sup>2</sup>	ISO180
Charpy impact strength	5.5J	-	Kj/m <sup>2</sup>	ISO179/1eU
Charpy notched impact strength	5.5J	-	Kj/m <sup>2</sup>	ISO179/1eA
<b>Thermal properties</b>				
Melting and crystallization temperature	10°C/min	220-222	°C	ISO11357-3
HDT /A Heat deflection temperature	1.8MPa	215	°C	ISO 75/1-2
HDT/B Heat deflection temperature	0.45MPa	220	°C	ISO 75/1-2
Vicat : Softening point of materials	-	-	°C	ISO 306
<b>Electrical properties</b>				
Surface resistivity	-	1.00e+13	Ohm-cm	IEC 60093
Volume resistivity	-	1.00e+15	Ohm-cm	IEC 60093
<b>Flammability</b>				
Flammability	HB		CLASS	UL94

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### Characteristics

- \*Delivery from  
Pellets,natural, color....
- \*Chemical resistance  
General chemical resistance
- \*Applications :extrusion,injection molding  
Automotive,electrical and electronical,general purpose.

### Processing

Properties :

Feed Temperature	225-230°C	Compression zone
Middle Barrel Temperature	230-240°C	
Front Barrel Temperature	240-250°C	
Nozzle Temperature	241-260°C	
Melt Temperature	230-260°C	
Mold Temperature	80.0 -100 °C	

### Packaging & delivery

PE aluminum bag : 25kg/bag (pallet 1000kg)  
Note to avoid moisture,insolationand breakage in transportation  
Delivery detail :30 days

#### **Contact :**

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