

## UBESTA 3024GU6

### Technical Product Information

UBESTA 3024GU6 is a 30% glass fiber reinforced Polyamide 12 for injection moulding application. This material has following features:

- Superior mechanical properties
- Excellent heat resistance
- Excellent moldability, easy mold release

Basic Properties <sup>(1)</sup>	Method	Unit	Value
<b>Polymer</b>	-	-	PA12
<b>Colour</b>	-	-	Natural
<b>Density</b>	ISO 1183-3	g/cm <sup>3</sup>	1,24
<b>Melting Point</b>	ISO 11357	°C	175 - 181

Mechanical Properties <sup>(2)</sup>	Method	Unit	Value
<b>Tensile strength</b>	ISO 527-1,2	MPa	125
<b>Tensile strain at break</b>		%	7
<b>Tensile modulus</b>		MPa	7000
<b>Flexural strength</b>	ISO 178	MPa	185
<b>Flexural modulus</b>		MPa	5800
<b>Charpy impact strength (notched) <sup>(3)</sup></b>	23 °C	ISO 179/1eA	28 C
	-40 °C		15 C

Thermal Properties <sup>(2)</sup>	Method	Unit	Value
<b>Temp. of deflection under load</b>	0,45 MPa	ISO 75-2	°C
	1,80 MPa		°C
<b>Coefficient of linear expansion</b>	ISO 11359-2	$\times 10^{-4}$ /K	0,3

Others <sup>(4)</sup>	Method	Unit	Value
<b>Molding shrinkage</b>	MD	UBE Method	%
	TD		%

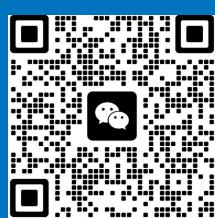
Note: All tests carried dry as mould

(1) Measured on pellets

(2) Measured on injection-moulded specimens, based on ISO type

(3) P=partial break, C=complete break

sample dimension is 30×100×3mm



## Processing conditions

Temperature (°C)	Cylinder					Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4	
40 - 120	210-230	230 - 250	240 - 260	240 - 260	240 - 260	

## Drying conditions

UBESTA is supplied dry (moisture content < 0,1%) and packed in high barrier films. However, as polyamide is a hygroscopic material, the user should take a special care of the possible moisture absorption once the bag or liner box has been opened. In case of moisture absorption, the material should be dried with dehumidified air at 80°C for more than 4 hours.

## Storage

Well-sealed packages could be stored in cool and dry conditions over long periods of time. Protect the packages from heat and direct sunlight to prevent possible damages.

