

## UBESTA 3020GX6

### Technical Product Information

UBESTA 3020GX6 is a 13% glass fiber reinforced and conductive Polyamide 12 for injection moulding application. The typical application is quick connectors in fuel line systems. This material has following features:

- Excellent mechanical properties
- Excellent moldability
- Superior conductivity

Basic Properties <sup>(1)</sup>	Method	Unit	Value
<b>Polymer</b>	-	-	PA12
<b>Colour</b>	-	-	Black
<b>Density</b>	ISO 1183-3	g/cm <sup>3</sup>	1,16
<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	130	
<b>Tensile strain at break</b>		%	6	
<b>Tensile modulus</b>		MPa	9600	
<b>Flexural strength</b>	ISO 178	MPa	195	
<b>Flexural modulus</b>		MPa	8100	
<b>Charpy impact strength (notched) <sup>(3)</sup></b>	ISO 179/1eA	23 °C	kJ/m <sup>2</sup>	21 C
		-40 °C	kJ/m <sup>2</sup>	12 C

Thermal Properties <sup>(2)</sup>	Method	Unit	Value	
<b>Temp. of deflection under load</b>	ISO 75-2	0,45 MPa	°C	177
		1,80 MPa	°C	165
<b>Coefficient of linear expansion</b>	ISO 11359-2	x 10 <sup>-4</sup> /K	0,2	

Electrical Properties <sup>(2)</sup>	Method	Unit	Value
<b>Volume Resistivity</b>	IEC 60093	Ω cm	1 · 10 <sup>6</sup>

Others <sup>(4)</sup>	Method	Unit	Value	
<b>Molding shrinkage</b>	UBE Method	MD	%	0,1
		TD	%	0,6



## 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.

