

## UBESTA 3030JLX1

### Technical Product Information

UBESTA 3030JLX1 is a plasticized and weather stabilized Polyamide 12 suitable for pneumatic tube applications. Material complies with DIN 73378 – PA12 PHL. This material has following features:

- Excellent mechanical properties
- High weather resistance
- Excellent processability

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>	1,03
<b>Melting Point</b>		ISO 11357	°C	171
<b>MFI @ 235 °C, 2,16 Kg</b>		ISO 1133	g/10 min	8
<b>Shore Hardness</b>	D scale	ISO 868	-	70
<b>Rockwell Hardness</b>	R scale	ISO 2039-2	-	62

Mechanical Properties <sup>(2)</sup>		Method	Unit	Value
<b>Tensile stress at yield</b>		ISO 527-1,2	MPa	29
<b>Tensile strain at yield</b>			%	25
<b>Tensile strain at break</b>			%	>150
<b>Flexural strength</b>		ISO 178	MPa	20
<b>Flexural modulus</b>			MPa	400
<b>Charpy impact strength (notched) <sup>(3)</sup></b>	23 °C	ISO 179/1eA	kJ/m <sup>2</sup>	120 P
	-40 °C		kJ/m <sup>2</sup>	3 C

Thermal Properties <sup>(2)</sup>		Method	Unit	Value
<b>Temp. of deflection under load</b>	0,45 MPa	ISO 75-2	°C	100
	1,80 MPa		°C	57
<b>Coefficient of linear expansion</b>		ISO 11359-2	x 10 <sup>-4</sup> /K	1,7

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



## Processing conditions

	Extruder						Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4	Adaptor	
<b>Temperature (°C)</b>	40 - 120	200 - 220	210 - 230	220 - 240	220 - 240	220 - 240	220 - 240

## 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.

