

## UBESTA 3020IX14

### Technical Product Information

UBESTA 3020IX14 is an impact modified and conductive Polyamide 12. It is most suitable for application in contact with fuel, such as for conductive multilayer fuel lines for tube extrusion application. This material has following features:

- Excellent mechanical properties
- Excellent impact resistance at low temperature
- 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>	1,10
<b>Melting Point</b>	ISO 11357	°C	178
<b>MFI @ 250 °C, 10 Kg</b>	ISO 1133	g/10 min	12

Mechanical Properties <sup>(2)</sup>	Method	Unit	Value	
<b>Tensile stress at break</b>	ISO 527-1,2	MPa	38	
<b>Tensile strain at break</b>		%	> 100	
<b>Flexural strength</b>	ISO 178	MPa	51	
<b>Flexural modulus</b>		MPa	1500	
<b>Charpy impact strength (notched) <sup>(3)</sup></b>	ISO 179/1eA	23 °C	kJ/m <sup>2</sup>	33 P
		-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	120
		1,80 MPa	°C	48
<b>Coefficient of linear expansion</b>	ISO 11359-2	x 10 <sup>-4</sup> /K	n.a.	

Electrical Properties <sup>(2)</sup>	Method	Unit	Value
<b>Surface Resistivity</b>	UBE Method	Ω / sq	10 <sup>4</sup>

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	
Temperature (°C)	40 - 120	210 - 230	240 - 260	240 - 260	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.

## Health & environmental data

Please refer to the corresponding **UBESTA** grade Safety Data Sheet (SDS).

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