

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 ⁽¹⁾	Method	Unit	Value
Polymer	-	-	PA12
Colour	-	-	Black
Density	ISO 1183-3	g/cm ³	1,10
Melting Point	ISO 11357	°C	178
MFI @ 250 °C, 10 Kg	ISO 1133	g/10 min	12

Mechanical Properties ⁽²⁾	Method	Unit	Value
Tensile stress at break	ISO 527-1,2	MPa	38
Tensile strain at break		%	> 100
Flexural strength	ISO 178	MPa	51
Flexural modulus		MPa	1500
Charpy impact strength (notched) ⁽³⁾	23 °C	kJ/m ²	33 P
	-40 °C	kJ/m ²	12 C

Thermal Properties ⁽²⁾	Method	Unit	Value
Temp. of deflection under load	ISO 75-2	°C	120
0,45 MPa		°C	48
1,80 MPa			
Coefficient of linear expansion	ISO 11359-2	x 10 ⁻⁴ /K	n.a.

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

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

Temperature (°C)	Extruder					Die	
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4	Adaptor	
40 - 120	210 - 230	240 - 260	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.

