

UBE NYLON 1015LIX

Technical Product Information

UBE NYLON 1015LIX is a conductive, impact modified Polyamide 6 suitable for application in contact with diesel, such as multilayer diesel lines. This material has following features:

- Excellent electrical conductivity
- High impact strength
- Excellent processability

Basic Properties ⁽¹⁾		Method	Unit	Value
Polymer		-	-	PA6
Colour		-	-	Black
Density		ISO 1183-3	g/cm ³	1,14
Melting Point		ISO 11357	°C	220
Shore Hardness	D scale	ISO 868	-	68
Rockwell Hardness	R scale	ISO 2039-2	-	101

Mechanical Properties ⁽²⁾		Method	Unit	Value
Tensile stress at yield		ISO 527-1,2	MPa	-
Tensile strain at yield			%	4
Tensile stress at break			MPa	40
Tensile strain at break			%	50
Flexural strength		ISO 178	MPa	61
Flexural modulus			MPa	1800
Charpy impact strength (notched) ⁽³⁾	23 °C	ISO 179/1eA	kJ/m²	92 P
	-40 °C		kJ/m²	26 C

Thermal Properties ⁽²⁾		Method	Unit	Value
Temp. of deflection under load	0,45 MPa	ISO 75-2	°C	150
	1,80 MPa		°C	57
Coefficient of linear expansion		ISO 11359-2	x 10 ⁻⁴ /K	1,3

Electrical Properties ⁽²⁾		Method	Unit	Value
Surface Resistivity		UBE Method	Ω / sq	< 10 ⁵

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

	Cylinder					Adaptor	Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4		
Temperature (°C)	40 - 120	230 - 250	240 - 260	250 - 270	250 - 270	260 - 280	260 - 280

Drying conditions

UBE NYLON 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.

