UBE NYLON 1024JI2

Technical Product Information

UBE NYLON 1024JI2 is a plasticized and impact modified, high viscosity Polyamide 6. It is most suitable for multilayer tubes in applications such as multilayer fuel or air brake lines. This material has following features:

- High impact strength
- Excellent processability

Basic Properties [1]		Method	Unit	Value
Polymer		-	-	PA6
Colour		-	-	Natural
Density		ISO 1183-3	g/cm^3	1,10
Melting Point		ISO 11357	°C	216
MFI @ 235°C, 2,16 Kg		ISO 1133	g/10min	4
Shore Hardness	D scale	ISO 868	-	73
Rockwell Hardness	R scale	ISO 2039-2	-	80

Mechanical Properties [2]		Method	Unit	Value
Tensile stress at yield		ISO 527-1,2	MPa	35
Tensile strain at yield			%	30
Tensile strain at break			%	> 150
Flexural strength		ISO 178	MPa	30
Flexural modulus			MPa	800
Charpy impact strength (notched) [3]	23 °C	ISO 179/1eA	kJ/m^2	35 P
	-40 °C			13 C

Thermal Properties [2]		Method	Unit	Value
Temp. of deflection under load	0,45 MPa	ISO 75-2	°C	44
	1,80 MPa		°C	95
Coefficient of linear expansion		ISO 11359-2	x 10^{-4}/K	1,6

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	210 - 230	220 - 240	230 - 250	230 - 250	230 - 250	230 - 250

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.