

UBE CORPORATION EUROPE S.A.U.

Polígono El Serrallo s/n 12100 Castellón, Spain Tel: +34 964 73 80 00 Fax: +34 964 73 81 80

www.ube.es

UBE NYLON 1024IU1

Technical Product Information

UBE NYLON 1024IU1 is an impact modified and heat stabilized high viscosity Polyamide 6, suitable for tube extrusion and blow moulding extrusion processes. This material has following features:

- Excellent chemical resistance and barrier against solvents
- High impact strength, especially at low temperature
- Excellent processability

Basic Properties (1)		Method	Unit	Value	
Polymer		-	-	PA6	
Colour		-	-	Natural	
Density		ISO 1183-3	g/cm³	1,08	
Melting Point		ISO 11357	°C	220	
MFI @ 235°C, 2,16 Kg		ISO 1133	g/10 min	2	
Shore Hardness	D scale	ISO 868	-	69	
Rockwell Hardness R scale		ISO 2039-2	-	112	

Mechanical Properties (2)		Method	Unit	Value
Tensile stress at yield			MPa	65
Tensile strain at yield		ISO 527-1,2	%	4
Tensile strain at break			%	20
Flexural strength		ICO 170	MPa	80
Flexural modulus		ISO 178	MPa	2300
Charpy impact strength (notched) (3)	23 °C	- ISO 179/1eA	kJ/m²	36 P
	-40 °C		kJ/m²	19 C

Thermal Properties ⁽²⁾		Method	Unit	Value	
Temp. of deflection under load	0,45 MPa	· ISO 75-2	°C	144	
	1,80 MPa		°C	53	
Coefficient of linear expansion		ISO 11359-2	x 10 ⁻⁴ /K	1,0	

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



UBE CORPORATION EUROPE S.A.U.

Polígono El Serrallo s/n 12100 Castellón, Spain Tel: +34 964 73 80 00 Fax: +34 964 73 81 80

www.ube.es

Processing conditions

		Cylinder				Adaptor	Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4		
Temperature (°C)	40 - 120	210 - 230	220 - 240	240 - 260	240 - 260	240 - 260	240 - 260

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.

Health & environmental data

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

IMPORTANT NOTICE:

The contents of here written materials were prepared based on materials, information and data available at the present moment. They may be revised because of new knowledge, information and data without notification. The data described herein are averaged values obtained by specific measurement. They are not guarantee fligures. UBE does not warrant or guarantee the quality or safety of your finished products, including but not limited to implied warranties of merchantability, thress for a particular purpose and non-infringement of third-party rights or a raising from a course of dealing, usage or trade practice even if UBE's products and data herein or any other information proposed by UBE are used to manufacture the finished products. Determination of suitability, merchantability or fitness for a particular purpose of your finished products shall be on your responsibility. UBE has no liability or legal responsibility for any issues or problems in relation to standards, regulations, laws, intellectual property rights - especially patent rights, etc. derived from any applications of UBE products for your finished products.

So it should be fully researched and studied by yourself. UBE highly recommends reading Safety Data Sheet "SDS" before using UBE

Products to ensure your safety. "UBE RVILON" and "UBESTA" is registered trademark in Japan and their countries.