

# UBE NYLON 1015 B

## Technical Product Information: Polyamide for Injection Molding Applications

UBE NYLON 1015 B is a low viscosity, unmodified Polyamide 6 for general application. This material has the following features:

- Excellent mechanical properties
- Good processability

Basic properties	Method	Unit	Value
Polymer	-	-	PA6
Color	-	-	Natural
Melting point	ISO 11357	°C	215-225
Density	ISO1183-3	g / cm <sup>3</sup>	1.14
Water absorption, 23°C/50%RH	UBE Method	%	2.5

Mechanical properties <sup>1)</sup>			
Tensile stress at yield	ISO 527-1,2	MPa	80
Tensile strain at break		%	40
Tensile modulus		GPa	2.9
Flexural strength	ISO 178	MPa	110
Flexural modulus		GPa	2.7
Charpy notched impact strength	ISO 179-1 / 1eA	kJ / m <sup>2</sup>	5
Rockwell hardness	R Scale	ISO 2039-2	120
	M Scale		80

Thermal properties <sup>1)</sup>			
Coeff. of linear thermal expansion	ISO 11359-2	x 10 <sup>-5</sup> °C	8

Electrical properties <sup>1)</sup>			
Volume resistivity	JIS K6911	Ω · cm	10 <sup>15</sup>
Electric strength	IEC 60243-1	kV / mm	20
Relative permittivity	IEC 60250	-	3.5
Arc resistance	ASTM D-495	s	119
C.T.I.	UL746A	UL index	0

Moldability <sup>2)</sup>				
Mold shrinkage	MD	UBE Method	%	1.4
	TD			1.5

**Note: All tests carried dry as mold**

<sup>1)</sup> Sample dimension is 10 × 10 × 4mm, selected in the middle of ISO 1A standard sample.

<sup>2)</sup> Sample dimension is 30 × 100 × 3mm

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