

UBE Nylon 1030B

Polyamide 6



General

Generic identification and marking	PA6
Market example	General
Application example	General
Processing example	Injection molding, Blow molding
Elemental Technology	Neat resin
Production area	Japan, Spain
Development product	Not applicable

Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	80
Tensile strain at break	%	ISO527-1,2	>50
Tensile modulus	MPa	ISO527-1,2	2800
Flexural strength	MPa	ISO178	110
Flexural modulus	MPa	ISO178	2700
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	8
Rockwell hardness (R scale)	-	ISO2039	120
Rockwell hardness (M scale)	-	ISO2039	80

Thermal property

	Unit	Test standard	Typical value
Melting temperature	°C	ISO11357	215-225
Temperature of deflection under load at 0.45MPa	°C	ISO75-1,2	145
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	60
Coefficient of linear thermal expansion	x10 ⁻⁵ /K	ISO11359-2	8.0

Electrical property

	Unit	Test standard	Typical value
Comparative Tracking Index	-	UL746A	0
Dielectric constant	-	IEC60250	3.5
Dielectric constant (1 MHz)	-	ASTMD150	3.5
Dissipation factor (1 MHz)	-	ASTMD150	20

Molding property

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.14
Water absorption at equilibrium	%	UBE Method	3.0
Flammability rating	-	UL94	HB

Remarks

* The contents of here written materials were prepared based on materials, information and data available at the

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