

UBE Nylon 1010X1

Polyamide 6



General

Generic identification and marking	PA6
Market example	Electrical & Electronics
Application example	Electric Powertrain, Consumer Electronics
Processing example	Injection molding
Elemental Technology	Neat resin
Production area	Japan
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	14
Tensile modulus	MPa	ISO527-1,2	2900
Flexural strength	MPa	ISO178	110
Flexural modulus	MPa	ISO178	2600
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	5
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	155
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	60

Electrical property

Molding property

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.14

Remarks

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* The data described herein are averaged values obtained by specified measurement: they are not guaranteed figures.

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* UBE highly recommends to read the Safety Data Sheet “SDS” before using UBE products to ensure your safety.

* Do not use UBE products in medical application for the parts involving implanting in human body. Please consult in advance for a medical application or parts in contact with food stuff.

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