

UBE Nylon 3030JI6L

Polyamide 12



General

Generic identification and marking	PA12-IP
Market example	Automotive
Application example	Fuel Line
Processing example	Tube molding
Elemental Technology	Impact resistant, Weather resistant, Good adhesion, Multi layer
Production area	Japan, Spain
Development product	Not applicable

Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	29
Tensile strain at break	%	ISO527-1,2	>150
Tensile modulus	MPa	ISO527-1,2	600
Flexural strength	MPa	ISO178	23
Flexural modulus	MPa	ISO178	500
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	115
Rockwell hardness (R scale)	-	ISO2039	59
Shore D hardness	-	ISO868	67

Thermal property

	Unit	Test standard	Typical value
Temperature of deflection under load at 0.45MPa	°C	ISO75-1,2	80
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	42
Coefficient of linear thermal expansion	x10 ⁻⁵ /K	ISO11359-2	18.0

Electrical property

	Unit	Test standard	Typical value
Volume resistivity	Ω · cm	IEC60093	10 ¹⁴

Molding property

	Unit	Test standard	Typical value
Mold shrinkage(MD)	%	ISO 294-4 D-2	0.7
Mold shrinkage(TD)	%	ISO 294-4 D-2	2.0

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.00

Remarks

* 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 specified measurement: they are not guaranteed figures.

* UBE does not warrant or guarantee the quality or safety of your finished products, including but not limited to

UBE Nylon 3030JI6L

Polyamide 12



implied warranties of merchantability, fitness for a particular purpose and noninfringement of third party rights or arising 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 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.

* “UBE NYLON”, “UBESTA” and “UBESTA XPA” are registered trademark in Japan and other countries.

* Copyright of all information in document belongs to UBE Corporation. Reproduction without UBE's permission is strictly forbidden.