

UBE Nylon 3030JLX1

Polyamide 12



General

Generic identification and marking	PA12-P
Market example	Automotive, Industrial
Application example	Electric Powertrain, Building · Construction
Processing example	Tube molding, Extrusion Coating
Elemental Technology	Single layer
Production area	Japan
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	480
Flexural strength	MPa	ISO178	20
Flexural modulus	MPa	ISO178	400
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	120
Rockwell hardness (R scale)	-	ISO2039	62
Shore D hardness	-	ISO868	70

Thermal property

	Unit	Test standard	Typical value
Temperature of deflection under load at 0.45MPa	°C	ISO75-1,2	100
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	57
Coefficient of linear thermal expansion	x10 ⁻⁵ /K	ISO11359-2	17.0

Electrical property

	Unit	Test standard	Typical value
Volume resistivity	Ω · cm	IEC60093	10 ¹²

Molding property

	Unit	Test standard	Typical value
Mold shrinkage(MD)	%	ISO 294-4 D-2	1.0
Mold shrinkage(TD)	%	ISO 294-4 D-2	1.4

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.03

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.

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* 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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