

UBE Nylon 3030JI5L

Polyamide 12



General

Generic identification and marking	PA12-IP
Market example	Automotive
Application example	Wire & Cable, Fuel Line
Processing example	Tube molding, Extrusion Coating
Elemental Technology	Impact resistant, Heat resistant, Weather resistant, Single layer
Production area	Japan, Spain
Development product	Not applicable

Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	26
Tensile strain at break	%	ISO527-1,2	>150
Tensile modulus	MPa	ISO527-1,2	450
Flexural strength	MPa	ISO178	19
Flexural modulus	MPa	ISO178	400
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	115
Rockwell hardness (R scale)	-	ISO2039	51
Shore D hardness	-	ISO868	67

Thermal property

	Unit	Test standard	Typical value
Melting temperature	°C	ISO11357	170-176
Temperature of deflection under load at 0.45MPa	°C	ISO75-1,2	91
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	45
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	0.7
Mold shrinkage(TD)	%	ISO 294-4 D-2	1.4

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.01
Water absorption at equilibrium	%	UBE Method	0.6

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

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figures.

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