

UBE Nylon 3024GU6L1

Polyamide 12



General

Generic identification and marking	PA12-GF30
Market example	Automotive
Application example	Fuel Line
Processing example	Injection molding
Elemental Technology	Glass fiber reinforced, Heat resistant
Production area	Japan
Development product	Not applicable

Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	115
Tensile strain at break	%	ISO527-1,2	6
Tensile modulus	MPa	ISO527-1,2	6700
Flexural strength	MPa	ISO178	175
Flexural modulus	MPa	ISO178	5800
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	24
Rockwell hardness (R scale)	-	ISO2039	110

Thermal property

	Unit	Test standard	Typical value
Melting temperature	°C	ISO11357	175-181
Temperature of deflection under load at 0.45MPa	°C	ISO75-1,2	177
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	161
Coefficient of linear thermal expansion	x10 ⁻⁵ /K	ISO11359-2	3.0

Electrical property

	Unit	Test standard	Typical value
Volume resistivity	Ω · cm	IEC60093	10 ¹⁵

Molding property

	Unit	Test standard	Typical value
Mold shrinkage(MD)	%	ISO 294-4 D-2	0.2
Mold shrinkage(TD)	%	ISO 294-4 D-2	0.8

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.24
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 figures.

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