

UBE Nylon 1013GU750

Polyamide 6



General

Generic identification and marking	PA6+6T/6I
Market example	Automotive
Application example	Fuel Line
Processing example	Injection molding
Elemental Technology	Heat resistant, Low water absorption, Calcium chloride resistant, Good adhesion
Production area	Japan
Development product	Not applicable

Mechanical property	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	200
Tensile strain at break	%	ISO527-1,2	3
Tensile modulus	MPa	ISO527-1,2	12000
Flexural strength	MPa	ISO178	310
Flexural modulus	MPa	ISO178	10000
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	15
Tensile strength after moisture absorption	MPa	ISO527-1,2	127
Tensile modulus after moisture absorption	MPa	ISO527-1,2	7500
Tensile strain at break after moisture absorption	%	ISO527-1,2	7
Charpy notched impact strength after moisture absorption	J/m	ISOxx179-1/1eA	24

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	220
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	210
Coefficient of linear thermal expansion	x10 ⁻⁵ /K	ISO11359-2	2.0

Electrical property	Unit	Test standard	Typical value
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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	0.6

Other property	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.41

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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