

# UBE Nylon 1013GUSX3

Polyamide 6



## General

Generic identification and marking	PA6-GF30
Market example	Automotive
Application example	Fuel Line
Processing example	Injection molding
Elemental Technology	Glass fiber reinforced, 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	4
Tensile modulus	MPa	ISO527-1,2	10000
Flexural strength	MPa	ISO178	290
Flexural modulus	MPa	ISO178	9100
Charpy notched impact strength	kJ/m <sup>2</sup>	ISO179-1/1eA	15
Rockwell hardness (R scale)	-	ISO2039	120
Rockwell hardness (M scale)	-	ISO2039	100

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	205
Coefficient of linear thermal expansion	× 10 <sup>-5</sup> /K	ISO11359-2	1.5

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	0.1
Mold shrinkage(TD)	%	ISO 294-4 D-2	1.2

Other property	Unit	Test standard	Typical value
Density	g/cm <sup>3</sup>	ISO1183	1.36

## 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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