

# UBE Nylon 1013GUSX2

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	195
Tensile strain at break	%	ISO527-1,2	3
Tensile modulus	MPa	ISO527-1,2	9800
Flexural strength	MPa	ISO178	275
Flexural modulus	MPa	ISO178	9200
Charpy notched impact strength	kJ/m <sup>2</sup>	ISO179-1/1eA	12
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
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Other property	Unit	Test standard	Typical value
Density	g/cm <sup>3</sup>	ISO1183	1.36
Water absorption at equilibrium	%	UBE Method	1.6

## Remarks

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