

# UBE Nylon 1015GC6

Polyamide 6



## General

Generic identification and marking	PA6-GF30
Market example	Automotive, Industrial, General
Application example	Interior, Cooling Systems, Fuel Line, Thermal Powertrain, Building · Construction
Processing example	Injection molding
Elemental Technology	Glass fiber reinforced
Production area	Thailand
Development product	Not applicable

Mechanical property	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	185
Tensile strain at break	%	ISO527-1,2	4
Tensile modulus	MPa	ISO527-1,2	9300
Flexural strength	MPa	ISO178	280
Flexural modulus	MPa	ISO178	8500
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	2.5

Electrical property	Unit	Test standard	Typical value
Arc resistance	sec	ASTMD495	121
Comparative Tracking Index	-	UL746A	1
Dielectric constant	-	IEC60250	3.6
Dielectric constant (1 MHz)	-	ASTMD150	3.6
Dissipation factor (1 MHz)	-	ASTMD150	20

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	1.8
Flammability rating	-	UL94	HB

## Remarks

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