

# UBE Nylon 1015GC3

Polyamide 6



## General

Generic identification and marking	PA6-GF15
Market example	Automotive, Industrial, General
Application example	Electrical & Electronics
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	125
Tensile strain at break	%	ISO527-1,2	3
Tensile modulus	MPa	ISO527-1,2	5800
Flexural strength	MPa	ISO178	200
Flexural modulus	MPa	ISO178	5300
Charpy notched impact strength	kJ/m <sup>2</sup>	ISO179-1/1eA	8
Tensile strength after moisture absorption	MPa	ISO527-1,2	75
Tensile modulus after moisture absorption	MPa	ISO527-1,2	3500
Tensile strain at break after moisture absorption	%	ISO527-1,2	9
Flexural strength after moisture absorption	MPa	ISO178	104
Flexural modulus after moisture absorption	MPa	ISO178	2700
Charpy notched impact strength after moisture absorption	J/m	ISOxx179-1/1eA	17
Rockwell hardness (R scale)	-	ISO2039	120
Rockwell hardness (M scale)	-	ISO2039	95
Rockwell hardness (R scale) after moisture absorption	-	ISO2039	103
Rockwell hardness (M scale) after moisture absorption	-	ISO2039	61

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	200

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	1.25
Water absorption at equilibrium	%	UBE Method	2.5
Flammability rating	-	UL94	HB

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