

UBE Nylon 1015GNKF

Polyamide 6



General

Generic identification and marking	PA6-GF30
Market example	Automotive, Industrial
Application example	Thermal Powertrain
Processing example	Injection molding
Elemental Technology	Glass fiber reinforced, Heat resistant, Good mold release
Production area	Thailand, USA
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	3
Tensile modulus	MPa	ISO527-1,2	9900
Flexural strength	MPa	ISO178	280
Flexural modulus	MPa	ISO178	8900
Charpy notched impact strength	kJ/m ²	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 ⁻⁵ /K	ISO11359-2	2.5

Electrical property	Unit	Test standard	Typical value
Comparative Tracking Index	-	UL746A	1

Molding property	Unit	Test standard	Typical value
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Other property	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.36
Water absorption at equilibrium	%	UBE Method	1.8

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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* UBE highly recommends to read the Safety Data Sheet “SDS” before using UBE products to ensure your safety.

* Do not use UBE products in medical application for the parts involving implanting in human body. Please consult in advance for a medical application or parts in contact with food stuff.

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