

UBE Nylon 1013NH

Polyamide 6



General

Generic identification and marking	PA6
Market example	Electrical & Electronics
Application example	Connectors
Processing example	Injection molding
Elemental Technology	Heat resistant, Good mold release
Production area	Japan
Development product	Not applicable

Mechanical property	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	85
Tensile strain at break	%	ISO527-1,2	17
Tensile modulus	MPa	ISO527-1,2	3200
Flexural strength	MPa	ISO178	110
Flexural modulus	MPa	ISO178	2800
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	5
Rockwell hardness (R scale)	-	ISO2039	120
Rockwell hardness (M scale)	-	ISO2039	80
Rockwell hardness (R scale) after moisture absorption	-	ISO2039	85

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	170
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	60

Electrical property	Unit	Test standard	Typical value
Arc resistance	sec	ASTMD495	122
Comparative Tracking Index	-	UL746A	0
Volume resistivity	Ω · cm	IEC60093	10 ¹⁵
Volume resistivity after moisture absorption	Ω · cm	IEC60093	10 ¹²

Molding property	Unit	Test standard	Typical value
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Other property	Unit	Test standard	Typical value
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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.

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