

UBE Nylon 1013NW850

Polyamide 6



General

Generic identification and marking	PA6
Market example	Automotive, Electrical & Electronics, Industrial, General
Application example	Chassis & Underbody, Fasteners
Processing example	Injection molding
Elemental Technology	Good mold release
Production area	Japan
Development product	Not applicable

Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	82
Tensile strain at break	%	ISO527-1,2	4
Tensile modulus	MPa	ISO527-1,2	3000
Flexural strength	MPa	ISO178	110
Flexural modulus	MPa	ISO178	2700
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	6
Rockwell hardness (R scale)	-	ISO2039	120
Rockwell hardness (M scale)	-	ISO2039	80

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	165
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	60

Electrical property

Molding property

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.13

Remarks

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* 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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