

UBE Nylon 1013NU250

Polyamide 6



General

Generic identification and marking	PA6
Market example	Automotive
Application example	General
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	95
Tensile strain at break	%	ISO527-1,2	7
Tensile modulus	MPa	ISO527-1,2	3500
Flexural strength	MPa	ISO178	115
Flexural modulus	MPa	ISO178	2900
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	121
Rockwell hardness (M scale) after moisture absorption	-	ISO2039	81

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	180
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	60

Electrical property	Unit	Test standard	Typical value
Arc resistance	sec	ASTMD495	119
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
------------------	------	---------------	---------------

Other property	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.14
Water absorption at equilibrium	%	UBE Method	1.8
Water absorption at saturated	%	UBE Method	10.8

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.
- * UBE does not warrant or guarantee the quality or safety of your finished products, including but not limited to implied warranties of merchantability, fitness for a particular purpose and noninfringement of third party rights or arising from a course of dealing, usage or trade practice even if UBE's products and data herein or any other information proposed by UBE are used to manufacture the finished products. Determination of suitability, merchantability or fitness for a particular purpose of your finished products shall be on your responsibility.
- * UBE has no liability or legal responsibility for any issues or problems in relation to standards, regulations, laws, intellectual property rights – especially patent rights, etc. derived from any applications of UBE products for your finished products. So it should be fully researched and studied by yourself.
- * 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.
- * “UBE NYLON”, “UBESTA” and “UBESTA XPA” are registered trademark in Japan and other countries.
- * Copyright of all information in document belongs to UBE Corporation. Reproduction without UBE's permission is strictly forbidden.