

# UBE Nylon 1013ASX24

Polyamide 6



## General

Generic identification and marking	PA6+6T/6I
Market example	Automotive
Application example	Fuel Line
Processing example	Injection molding
Elemental Technology	Heat resistant, Low water absorption, Calcium chloride resistant, Good adhesion
Production area	Japan
Development product	Not applicable

## Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	80
Tensile strain at break	%	ISO527-1,2	4
Tensile modulus	MPa	ISO527-1,2	3300
Flexural strength	MPa	ISO178	110
Flexural modulus	MPa	ISO178	2800
Charpy notched impact strength	kJ/m <sup>2</sup>	ISO179-1/1eA	5
Rockwell hardness (R scale)	-	ISO2039	120
Rockwell hardness (M scale)	-	ISO2039	85
Rockwell hardness (R scale) after moisture absorption	-	ISO2039	85
Rockwell hardness (M scale) after moisture absorption	-	ISO2039	55

## 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	65
Coefficient of linear thermal expansion	× 10 <sup>-5</sup> /K	ISO11359-2	8.0

## Electrical property

	Unit	Test standard	Typical value
Arc resistance	sec	ASTMD495	119
Comparative Tracking Index	-	UL746A	0
Volume resistivity	Ω · cm	IEC60093	10 <sup>15</sup>
Volume resistivity after moisture absorption	Ω · cm	IEC60093	10 <sup>12</sup>

## Molding property

	Unit	Test standard	Typical value
Mold shrinkage(MD)	%	ISO 294-4 D-2	1.0
Mold shrinkage(TD)	%	ISO 294-4 D-2	1.1

## Other property

	Unit	Test standard	Typical value
Density	g/cm <sup>3</sup>	ISO1183	1.14
Water absorption at equilibrium	%	UBE Method	2.5

## Remarks

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