

UBE NYLON 1022MT5

Technical Data Sheet (TDS)

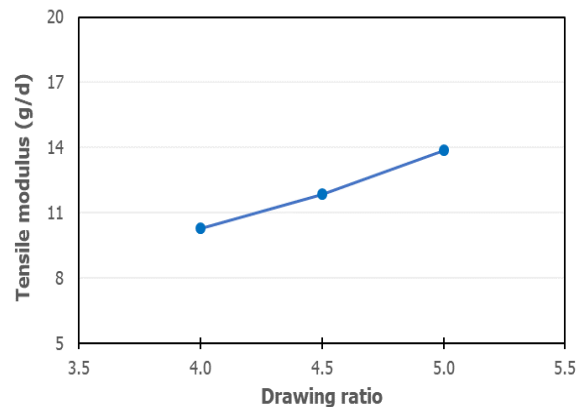
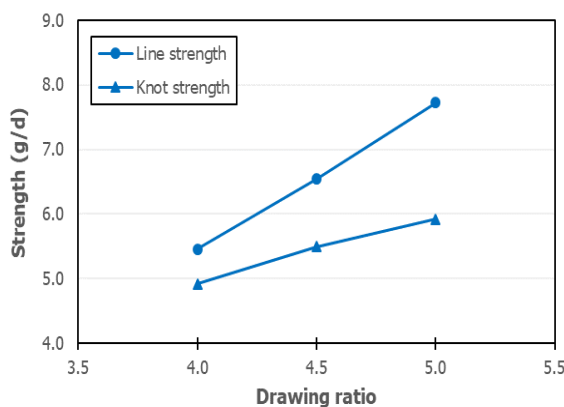


UBE NYLON 1022MT5 is a medium viscosity PA6 with high monomer content containing. It has been developed especially for small size monofilament (MF) such as fishing net, fishing line, etc. The monofilament made by UBE NYLON 1022MT5 can show superior performance than typical PA6.

Basic properties	Method	Unit	UBE NYLON 1022MT5
Melting point	ISO 11357	°C	220
Relative Viscosity ⁽¹⁾	UBE Method	-	3.23
Viscosity Number ⁽²⁾	ISO 307	ml/g	186
Extractable lactum content	UBE Method	wt%	4.60

⁽¹⁾ 96% H₂SO₄, 1% polymer concentration. ⁽²⁾ 96% H₂SO₄, 0.5% polymer concentration.

Mechanical properties of 1022MT5 of monofilament diameter 0.30 mm



Mechanical properties ⁽³⁾

			UBE NYLON 1022MT5		
Drawing ratio (G3/G1)			4.0	4.5	5.0
Denier		d	661	666	673
Line	Strength	g/d	5.5	6.5	7.7
	Tenacity	Kg	3.6	4.4	5.2
	Elongation	%	59	48	39
Tensile modulus		g/d	10	12	14
Knot	Strength	g/d	4.9	5.5	5.9
	Tenacity	Kg	3.3	3.7	4.0
	Elongation	%	50	35	27

⁽³⁾ Processing condition

Screw diameter	mm	35
Monofilament diameter	mm	0.30
Extrusion temperature	C1	°C 245
	C2	°C 255
	C3	°C 260
	AD	°C 250
	D1	°C 250
	D2	°C 240
Quenching bath temperature	°C	15

Drawing Temperature	1 st chamber	°C	HW95
	2 nd chamber	°C	160
	Heat set	°C	160
Drawing ratio	G2/G1	-	3.6
	G3/G2	-	1.1-1.4
Relaxation ratio	G4/G3	-	0.97
Line speed	G4	-	27.6

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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.

"UBE NYLON" is registered trademark in Japan and other countries.

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