

UBE CORPORATION EUROPE S.A.U.

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UBE NYLON 5034B

Technical Product Information: CAST - PA monolayer film properties

UBE NYLON 5034B is a basic, high viscosity Polyamide 6/6.6 copolymer. The grade is suitable for a wide range of applications. This material has the following features:

- Excellent processability
- Excellent mechanical properties
- Excellent puncture and pin hole resistance
- Deep drawability

Basic Properties (1)	Method	Unit	Value	
Polymer	-	-	PA6/6.6	
Melting Point	ISO 11357	°C	192	
Relative Viscosity (96% H ₂ SO ₄)	JIS K6810	-	4,05	
Density	DIN 53479	g/cm³	1,14	

Mechanical Properties (2)	Method	Unit	Value	
Tensile strength at yield		MPa	22 - 26	
Tensile strength at break	100 527 7	MPa	105 - 125	
Tensile elongation at break	ISO 527-3	%	430 - 450	
Tensile modulus		MPa	450 - 550	
Tear resistance	ASTM D 1922	N	2,1 - 2,3	
Puncture energy	JAS P-1019	mJ	37 - 39	
Puncture deformation	JAS P-1019	mm	10,0 - 11,0	
Spencer impact resistance	ASTM D 3420	mJ	850 - 950	
Flex crack (23°C, 1000 cycles / 5°C, 100 cycles)	Mil B-131C	Holes/0,04m²	< 20 / < 5	

Optical Properties (2)	Method	Unit	Value	
Haze	ASTM D 1003	%	< 0,5	
Gloss	ASTM D 523	%	145 - 165	

Gas Barrier ⁽²⁾	Method	Unit	Value	
Oxygen (T=23°C, RH=0%)	ASTM D 3985	ml/m².day	33 - 35	
Water Vapour (T=40°C, RH=90%)	JIS Z-0208	g/m².day	180 - 200	



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Slip Properties (2)	Method	Unit	Value	
Coefficient of friction (static)	ACTM D 1007	-	>]	
Coefficient of friction (dynamic)	ASTM D 1894	-	>1	

Regulation	Method	Unit	Value	
FDA / EC	-	-	1&D / 1&D	

I: Approved for indirect food contact D: Approved for direct food contact

(1) Measured on base resin

(2) All tests carried out with a monolayer cast line, Die width = 350 mm (Coat hanger type)

Structure: PA monolayer

Layer thickness distribution: PA = $50 \mu m$

Cooling conditions: Chiller roll temperature = 20 °C

Sample conditioning and testing conditions: T = 23°C, RH =50%

Processing conditions

			Ext	ruder		Adaptor	Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4	Adaptor	Die
Temperature (°C)	40 - 120	180 - 200	200 - 220	210 - 230	220 - 240	230 - 250	230 - 250

Drying conditions

UBE NYLON is supplied dry (moisture content < 0,1%) and packed in high barrier films. However, as polyamide is a hygroscopic material, the user should take a special care of the possible moisture absorption once the bag or liner box has been opened. In case of moisture absorption, the material should be dried with dehumidified air at 80°C for more than 4 hours.

Storage

Well-sealed packages could be stored in cool and dry conditions over long periods of time. Protect the packages from heat and direct sunlight to prevent possible damages.

Health & environmental data

Please refer to the corresponding **UBE NYLON** grade SDS.

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 net to the total and the evincer in the evincer in the peace to base of international and the available at the present international and the available and the peace of the pe 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 reading Safety Data Sheet "SDS" before using UBE Products to ensure your safety. "UBE NYLON" and "UBESTA" is registered trademark in Japan and other countries.