UBE NYLON 5034B



UBE NYLON 5034B is a high viscosity copolyamide 6/6.6 (PA6/6.6). The grade is suitable in outer, middle and/or inner layer for a wide range of film extrusion applications.

Basic properties 🛛 🖌	Method	Unit	Value
Melting point	ISO 11357	٥C	192
Relative Viscosity (2)	UBE Method	-	4.05
Viscosity number (3)	ISO 307	ml/g	244
Density	DIN 53479	g.cm ⁻³	1.14

⁽¹⁾ Measured on base resin. Average values. ⁽²⁾ 96% H₂SO₄, 1% polymer concentration. (3) 96% H₂SO₄, 0.5% polymer concentration.

♂ GB

Food legislation compliance

✓ EC

S FDA

✓ Japan positive list

¶[‡] T=-18⁰C

↓ T=23°C, RH=50%

Mechanical properties •

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Tensile strength at yield	- - ASTM D-882 -	МРа	-	23 - 27
Tensile strength at break		МРа	65 - 75	100 - 120
Tensile elongation at break		%	300 - 330	470 - 500
Tensile modulus		МРа	1900 - 2100	500 - 600
Puncture load	- JAS P-1019	Ν	12.0 - 13.0	10.0 - 11.0
Puncture deformation		mm	5.0 - 6.0	9.5 - 10.5
Tear resistance	ASTM D-1922	kN/m	-	28 - 34
Spencer impact resistance	ASTM D-3420	mJ	-	850 - 950
Flexcrack resistance (Gelboflex)	MIL-STD-3010C	Holes/0.04m ²	^{50 cycles} < 10	^{1000 cycles} < 10

Optical properties •

Optical properties 🛛			🜡 T=23ºC, RH=50%	
Haze	ASTM D-1003	%	5 - 7	
Gloss (60°)	ASTM D-523	G.U.	110 - 130	

Gas barrier properties (4)

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Oxygen T.R.	ASTM D-3985	ml/m².day	↓ T=23°C, RH=0%	24 - 26
Water vapor T.R.	JIS Z-0208	g/m².day	↓ T=40°C, RH=90%	170 - 190
Slip properties 🛛 🖊			J	T=23ºC, RH=50%
Coefficient of Friction Static	— ASTM D-1894	-		> 1
Coefficient of Friction Dynamic	ASTM D-1694	-		0.50 - 0.55
Thermoforming properties 🗠			l	T=23ºC, RH=50%
Max. Thermoforming depth	UBE Method	mm		80 - 90

⁽⁴⁾ Film samples processed on a pilot Airblown line at 6 m.min⁻¹, applying a Blow Up Ratio of 2.1 Samples conditioned at T=23°C, RH=50% for t≥24h before testing

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