

# UBE Nylon 5034 B

Polyamide 66/6 Copolymer  
UBE Engineering Plastics, S.A.

Message:

Ube Nylon 5034B is a PA6/6.6 Copolyamide, produced by continuous polymerization process. It is a high viscosity grade suitable for numerous applications. The grade can be used for cast film and blown film (air cooled).

General Information			
Additive	Low smoothness		
Features	Low smoothness		
	Workability, good		
	Compliance of Food Exposure		
	Viscosity, High		
Uses	Films		
	cast film		
Agency Ratings	European food contact, not rated		
Appearance	Natural color		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With self-dynamics	1.0		ASTM D1894
With Self-Static	1.0		ASTM D1894
Films	Nominal Value	Unit	Test Method
Secant Modulus - MD	400	MPa	ASTM D882
Tensile Strength - MD			ASTM D882
Yield	23.0	MPa	ASTM D882
Fracture	107	MPa	ASTM D882
Tensile Elongation - MD (Break)	600	%	ASTM D882
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	192	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Optical	Nominal Value	Unit	Test Method

Gardner Gloss	155		ASTM D523
Haze	0.50	%	ASTM D1003

#### Additional Information

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. The value listed as Surface Resistivity, ASTM D257, was tested in accordance with UBE test methods. Coefficient of Friction, ASTM D1894, Dynamic: >1 Coefficient of Friction, ASTM D1894, Static: >1 Oxygen Permeability, ASTM D3985: 41.5 ml/m<sup>2</sup>/day Relative Viscosity, JIS K6810, 96% H<sub>2</sub>SO<sub>4</sub>, conc. 1.0 g/100 ml: 4.08 Surface Resistivity, UBE Method: >1e15 ohm Extractable Content, JIS K6810: <1.0 wt% Molecular Ratio, PA6/PA6.6: 80/20 Water Vapor Permeability, JIS Z0208: 130 g/m<sup>2</sup>/day Piercing Strength, JAS P1019: 950 N/mm Piercing Elongation, JAS P1019: 14.5 mm Flex Crack Resistance, MIL B131B, 23°C, 1000 cycle: <5 hole/0.04 m<sup>2</sup> Gelbo Test, MIL B131B, 5°C, 100 cycle: <5 hole/0.04 m<sup>2</sup>

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