

# UBE Nylon 7024 B

Polyamide 612

UBE Engineering Plastics, S.A.

## Message:

UBE NYLON 7024 B is a medium viscosity PA6/12 Copolyamide. It is suitable for applications with indirect food contact according FDA and EU regulations. The grade can be used for cast film and blown film (air or water cooled).

General Information			
Features	Workability, good		
	Definition, high		
	Compliance of Food Exposure		
	High shrinkage		
Uses	Films		
	cast film		
Appearance	Natural color		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	1.11	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	425	MPa	ASTM D882
Tensile Strength - MD			ASTM D882
Yield	23.0	MPa	ASTM D882
Fracture	100	MPa	ASTM D882
Tensile Elongation - MD (Break)	600	%	ASTM D882
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	201	°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	1.0	%	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 Molecular Ratio, PA6/PA12: 80/20 Oxygen Permeability, ASTM D3985: 95 ml/m<sup>2</sup>/day Surface Resistivity, UBE Method: > 1e15 ohm Extractable Content, JIS K6810: <1.0 wt% Relative Viscosity, JIS K6810, 96% H<sub>2</sub>SO<sub>4</sub>, conc. 1.0 g/100 ml: 2.66 Water Vapor Permeability, JIS Z0208: 85 g/m<sup>2</sup>/day Piercing Strength, JAS P1019: 850 N/mm Piercing Elongation, JAS P1019: 14.5 mm Flex Crack Resistance, MIL B131B, 23°C, 1000 cycle: <20 hole/0.04 m<sup>2</sup> Gelbo Test, MIL B131B, 5°C, 100 cycle: <10 hole/0.04 m<sup>2</sup>

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### Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

