

# UBE Nylon 1030 B

Polyamide 6  
UBE Engineering Plastics, S.A.

Message:  
UBE NYLON 1030 B is a high viscosity, unmodified Polyamide 6 for general application (tubes, film, sheets).

General Information			
UL YellowCard	E48133-240258		
Features	Workability, good		
	Compliance of Food Exposure		
	General		
	Viscosity, High		
Uses	Films		
	Pipe fittings		
	Sheet		
Agency Ratings	FDA Food Exposure, Not Rated		
	European food contact, not rated		
Forms	Particle		
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 (Cast Film)	650	MPa	ASTM D882
Tensile Strength - MD			ASTM D882
Yield, extruded film	32.0	MPa	ASTM D882
Fracture, extruded film	110	MPa	ASTM D882
Tensile Elongation - MD (Fracture, Extruded Film)	600	%	ASTM D882
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	215	°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: 40 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: 4.18 Extractable Content, JIS K6810: <1.0 wt% Water Vapor Permeability, JIS Z0208: 120 g/m<sup>2</sup>/day Piercing Strength, JAS P1019, Cast Film: 10.0 N Piercing Elongation, JAS P1019, Cast Film: 15 mm Flex Crack Resistance, MIL B131B, 23°C, 1000 cycle, Cast Film: <15 hole/0.04 m<sup>2</sup> Gelbo Test, MIL B131B, 5°C, 100 cycle, Cast Film: <5 hole/0.04 m<sup>2</sup>

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