

# UBE Nylon 1022 FDX99

Polyamide 6  
UBE Engineering Plastics, S.A.

Message:  
UBE NYLON 1022 FDX99 is a medium viscosity, nucleated Polyamide 6. The material is suitable for cast film and air-cooled blown film production.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Low smoothness		
	Workability, good		
	Definition, high		
	Medium viscosity		
Uses	Films		
Agency Ratings	FDA Food Exposure, Not Rated		
	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm <sup>3</sup>	ASTM D792
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	215	°C	DSC
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 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: 3.37 Extractable Content, JIS K6810: <1.00 wt% Water Vapor Permeability, JIS Z0208: 120 g/m<sup>2</sup>/day Piercing Strength, JAS P1019, Cast Film: 9.5 N Piercing Elongation, JAS P1019, Cast Film: 14 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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