

# UBE Nylon 5033 FDX27

Polyamide 66/6 Copolymer

UBE Engineering Plastics, S.A.

## Message:

UBE NYLON 5033 FDX27 is a medium viscosity Polyamide 6/6.6 copolymer. The material is modified for improved slip. It is suitable for cast, air- or water-cooled blown film production. Typical application is for casings and big bags.

General Information			
Additive	slip agent		
Features	smoothness		
	Workability, good		
	Compliance of Food Exposure		
	Medium viscosity		
Uses	Films		
	cast film		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With self-dynamics	0.30		ASTM D1894
With Self-Static	0.30		ASTM D1894
Films	Nominal Value	Unit	Test Method
Secant Modulus - MD (Cast Film)	400	MPa	ASTM D882
Tensile Strength - MD			ASTM D882
Yield, extruded film	24.0	MPa	ASTM D882
Fracture, extruded film	115	MPa	ASTM D882
Tensile Elongation - MD (Fracture, Extruded Film)	650	%	ASTM D882
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	196	°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	130		ASTM D523

Haze	3.5	%	ASTM D1003
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#### 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. Oxygen Permeability, ASTM D3985: 24 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: 3.93 Extractable Content, JIS K6810: <1.0 wt% Molecular Ratio, PA6/PA6.6: 85/15 Water Vapor Permeability, JIS Z0208: 60 g/m<sup>2</sup>/day Piercing Strength, JAS P1019, Cast Film: 9.5 N Piercing Elongation, JAS P1019, Cast Film: 12 mm Flex Crack Resistance, MIL B131B, 23°C, 1000 cycle, Cast Film: <5 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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