

UBE Nylon 5033 FDX57

Polyamide 66/6 Copolymer

UBE Engineering Plastics, S.A.

Message:

UBE NYLON 5033 FDX57 is a high viscosity, nucleated Polyamide 6/6.6 copolymer. It is most suitable for water-cooled blown film production. Typical application is for sausage casing and shrink bags.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Highlight		
	Workability, good		
	Definition, high		
	Compliance of Food Exposure		
Uses	Viscosity, High		
	Films		
	Bags		
Agency Ratings	cast film		
	European food contact, not rated		
	Particle		
Forms	Blow film		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	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)	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	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: 24 ml/m²/day Relative Viscosity, JIS K6810, 96% H₂SO₄, conc. 1.0 g/100 ml: 4.08 Extractable Content, JIS K6810: <1.0 wt% Molecular Ratio, PA6/PA6.6: 85/15 Water Vapor Permeability, JIS Z0208: 125 g/m²/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: <5 hole/0.04 m² Gelbo Test, MIL B131B, 5°C, 100 cycle, Cast Film: <5 hole/0.04 m²

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