

# UBE Nylon 5034 FDX40

Polyamide 66/6 Copolymer

UBE Engineering Plastics, S.A.

## Message:

UBE NYLON 5034 FDX40 is a high viscosity, nucleated Polyamide 6/6.6 copolymer. The material is suitable for cast film and air-cooled blown film production. Typical application is for shrink bags and pouches.

General Information	
Additive	Nucleating agent
Features	Nucleated
	Workability, good
	Low shrinkage
	Definition, high
	Viscosity, High
Uses	Films
	Bags
	cast film
	Shrinkable film
Forms	Particle
Processing Method	Blow film
	cast film

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)	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)	197	°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: 3.89 Extractable Content, JIS K6810: <1.0 wt% Molecular Ratio, PA6/PA6.6: 80/20 Water Vapor Permeability, JIS Z0208: 125 g/m<sup>2</sup>/day Piercing Strength, JAS P1019, Cast Film: 9.5 N Piercing Elongation, JAS P1019, Cast Film: 15 mm Flex Crack Resistance, MIL B131B, 23°C, 1000 cycle, Cast Film: <10 hole/0.04 m<sup>2</sup> Gelbo Test, MIL B131B, 5°C, 100 cycle, Cast Film: <10 hole/0.04 m<sup>2</sup>

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