

UBE Nylon 5034 C2

Polyamide 66/6 Copolymer
UBE Engineering Plastics, S.A.

Message:

UBE NYLON 5034 C2 is a high viscosity, nanocomposite Polyamide 6/6.6 copolymer, offering excellent barrier properties. The material is suitable for cast and air-cooled blown film production.

General Information			
Filler / Reinforcement	Nanofiller		
Features	Workability, good		
	Definition, high		
	Compliance of Food Exposure		
	Viscosity, High		
	Barrier resin		
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	1.15	g/cm ³	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)	750	MPa	ASTM D882
Tensile Strength - MD			ASTM D882
Yield, extruded film	30.0	MPa	ASTM D882
Fracture, extruded film	105	MPa	ASTM D882
Tensile Elongation - MD (Fracture, Extruded Film)			ASTM D882
	550	%	
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	135		ASTM D523
Haze	3.0	%	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. Oxygen Permeability, ASTM D3985: 25 ml/m²/day Relative Viscosity, JIS K6810, 96% H₂SO₄, conc. 1.0 g/100 ml: 3.36 Extractable Content, JIS K6810: <1.0 wt% Water Vapor Permeability, JIS Z0208: 80 g/m²/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: <10 hole/0.04 m² Gelbo Test, MIL B131B, 5°C, 100 cycle, Cast Film: <10 hole/0.04 m²

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