

SURPASS® FPs417-A

Linear Low Density Polyethylene
NOVA Chemicals

Message:

SURPASS® FPs417-A is a linear low density polyethylene material. This product is available in North America and is processed by film extrusion or co-extrusion.

SURPASS® The main features of the FPs417-A are:

Antioxidants
accessible food
Good tear strength
beautiful
Puncture resistance

Typical application areas include:

Wrapping
Movie
food contact applications
application of coating

General Information	
Additive	Antioxidation
Features	Low density
	Low speed solidification crystal point
	Optical
	Perforation resistance
	Antioxidation
	Good tear strength
	Compliance of Food Exposure
	Octene comonomer
Uses	Laminate
	Stretch winding
	cast film
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Processing Method	Film extrusion
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.4	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
secant modulus			ASTM D882

1% secant, MD: 20 µm, cast film	100	MPa	ASTM D882
1% secant, TD: 20 µm, cast film	120	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm, extruded film	7.50	MPa	ASTM D882
TD: Yield, 20 µm, extruded film	7.00	MPa	ASTM D882
MD: Fracture, 20 µm, extruded film	32.0	MPa	ASTM D882
TD: Fracture, 20 µm, extruded film	25.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 20 µm, extruded film	470	%	ASTM D882
TD: Fracture, 20 µm, extruded film	780	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 20 µm, cast film	380	g	ASTM D1922
TD: 20 µm, cast film	540	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 µm, Cast Film)	85		ASTM D2457
Haze (20.0 µm, Cast Film)	0.80	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Cast Film (20.0 µm)	830	J/cm	Internal method
Ultimate Elongation - Cast Film (20.0 µm)	360	%	Internal method

Film properties are typical of cast film extruded at a melt temperature of 500°F, and a line speed of 800 ft/min.

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