

SURPASS® FPs317-A

Linear Low Density Polyethylene
NOVA Chemicals

Message:

SURPASS® FPs317-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 FPs317-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		
Forms	Particle		
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)	4.0	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

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