

## SURPASS® FPs117 Series

## NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information					
Product Description					
FPs117-C (PPA): Lamination fil	m, coextruded sealant layer, and high tough	ness film			
FPs117-D (1000 ppm Slip, 2500	0 ppm AB, PPA): Lamination film, coextrude	d sealant layer, and high toughne	ess film		
General					
Material Status	Commercial: Active				
Availability	North America				
A -1 -1:4:	Antiblock: 2500 ppm [FPs117-D]    Processing Aid				
Additive	<ul> <li>Antioxidant</li> </ul>	<ul> <li>Slip: 1000 ppm [FPs117-D</li> </ul>	]		
Features	<ul> <li>Antioxidant</li> </ul>	<ul> <li>Good Processability</li> </ul>	<ul> <li>Low Density</li> </ul>		
	<ul> <li>Food Contact Acceptable</li> </ul>	<ul> <li>Good Tear Strength</li> </ul>	<ul> <li>Low Gel</li> </ul>		
	<ul> <li>Good Heat Seal</li> </ul>	<ul> <li>Good Toughness</li> </ul>	<ul> <li>Octene Comonomer</li> </ul>		
Uses	• Film	<ul> <li>Laminates</li> </ul>			
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2	2a			
Forms	• Pellets				
Processing Method	Coextrusion	Film Extrusion			

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.919		ASTM D792	
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238	
Films	Nominal Value	Unit	Test Method	
Film Thickness - Tested	1	mil		
Secant Modulus - 1% Secant, MD (0.98 mil, Blown Film)	18300	psi	ASTM D882	
Secant Modulus - 1% Secant, TD (0.98 mil, Blown Film)	19100	psi	ASTM D882	
Tensile Strength - MD (Yield, 0.98 mil, Blown Film)	1310	psi	ASTM D882	
Tensile Strength - TD (Yield, 0.98 mil, Blown Film)	1310	psi	ASTM D882	
Tensile Strength - MD (Break, 0.98 mil, Blown Film)	6670	psi	ASTM D882	
Tensile Strength - TD (Break, 0.98 mil, Blown Film)	6090	psi	ASTM D882	
Tensile Elongation - MD (Break, 0.98 mil, Blown Film)	540	%	ASTM D882	
Tensile Elongation - TD (Break, 0.98 mil, Blown Film)	760	%	ASTM D882	
Dart Drop Impact (0.98 mil, Blown Film)	400	g	ASTM D1709A	
Elmendorf Tear Strength - MD (0.98 mil, Blown Film)	300	g	ASTM D1922	
Elmendorf Tear Strength - TD (0.98 mil, Blown Film)	450	g	ASTM D1922	
Seal Initiation Temperature (0.98 mil, Blown Film)	212	°F		
Optical	Nominal Value	Unit	Test Method	
Gloss			ASTM D2457	
45°, 0.984 mil, Blown Film <sup>2</sup>	37			
45°, 0.984 mil, Blown Film <sup>3</sup>	72			
Haze			ASTM D1003	
0.984 mil, Blown Film <sup>2</sup>	16.0	%		
0.984 mil, Blown Film <sup>3</sup>	7.00	%		
Additional Information	Nominal Value	Unit	Test Method	
Low Friction Puncture - Blown Film (1.0 mil)	17.8	in·lb/mil	Internal Method	



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## **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 100% LLDPE

<sup>3</sup> LDPE Blended

