

# SURPASS® FPs016-C

NOVA Chemicals - Linear Low Density Polyethylene			Tuesday, November 5, 2019	
	General Info	rmation		
General				
Material Status	Commercial: Active			
Availability	North America			
Additive	Antioxidant	Processing Aid		
Features	<ul><li>Antioxidant</li><li>Food Contact Acceptable</li><li>Good Melt Strength</li></ul>	<ul><li> Good Tear Strength</li><li> Good Toughness</li><li> Low Density</li></ul>	Low Gel     Octene Comonomer	
Uses	• Film	Laminates		
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a			
Forms	• Pellets			
Processing Method	Film Extrusion			
	ASTM & ISO P	roperties 1		
Physical		Nominal Value Unit	Test Method	
Density / Specific Gravity		0.918	ASTM D792	
Melt Mass-Flow Rate (190°C/2.16 kg)		0.65 g/10 m	nin ASTM D1238	

Physical	SO Properties <sup>1</sup> Nominal Value	Unit	Test Method
Density / Specific Gravity	0.918	Onic	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)		g/10 min	ASTM D1238
Films	Nominal Value		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)	20000	psi	ASTM D882
Tensile Strength - MD (Yield, 0.98 mil, Blown Film)	1230	psi	ASTM D882
Tensile Strength - TD (Yield, 0.98 mil, Blown Film)	1230	psi	ASTM D882
Tensile Strength - MD (Break, 0.98 mil, Blown Film)	6820	psi	ASTM D882
Tensile Strength - TD (Break, 0.98 mil, Blown Film)	6380	psi	ASTM D882
Tensile Elongation - MD (Break, 0.98 mil, Blown Film)	470	%	ASTM D882
Tensile Elongation - TD (Break, 0.98 mil, Blown Film)	780	%	ASTM D882
Dart Drop Impact (0.98 mil, Blown Film)	700	g	ASTM D1709A
Elmendorf Tear Strength - MD (0.98 mil, Blown Film)	350	g	ASTM D1922
Elmendorf Tear Strength - TD (0.98 mil, Blown Film)	430	g	ASTM D1922
Seal Initiation Temperature <sup>2</sup> (0.98 mil, Blown Film)	212	°F	
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 0.984 mil, Blown Film <sup>3</sup>	38		
45°, 0.984 mil, Blown Film <sup>4</sup>	72		
Haze			ASTM D1003
0.984 mil, Blown Film <sup>3</sup>	15.0	%	
0.984 mil, Blown Film <sup>4</sup>	7.00	%	

Low Friction Puncture - Blown Film (1.0 mil)

22.0 in·lb/mil

Nominal Value Unit



**Additional Information** 

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#### Notes

- <sup>1</sup> Typical properties: these are not to be construed as specifications.
- <sup>2</sup> Temperature at which a 2 mil film achieves a seal strength of 4.4N/13mm. 0.5 sec dwell, 0.27 N/mm² bar pressure, 305 mm/min pull speed
- <sup>3</sup> 100% LLDPE
- <sup>4</sup> LDPE Blended

