

SURPASS® FPs016-C

Linear Low Density Polyethylene

NOVA Chemicals

Message:

SURPASS® FPs016-C is a Linear Low Density Polyethylene material. It is available in North America for film extrusion.

Important attributes of SURPASS® FPs016-C are:

Antioxidant

Food Contact Acceptable

Good Tear Strength

Good Toughness

Octene Comonomer

Typical applications include:

Coating Applications

Film

Food Contact Applications

General Information			
Additive	Antioxidant Processing Aid		
Features	Antioxidant Food Contact Acceptable Good Melt Strength Good Tear Strength Good Toughness Low Density Low Gel Octene Comonomer		
Uses	Film Laminates		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.916	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.65	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 25 µm, Blown Film	126	MPa	
1% Secant, TD : 25 µm, Blown Film	138	MPa	

Tensile Strength			ASTM D882
MD : Yield,25 µm, Blown Film	8.50	MPa	
TD : Yield,25 µm, Blown Film	8.50	MPa	
MD : Break, 25 µm,Blown Film	47.0	MPa	
TD : Break, 25 µm,Blown Film	44.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 µm,Blown Film	470	%	
TD : Break, 25 µm,Blown Film	780	%	
Dart Drop Impact (25 µm, Blown Film)	700	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	350	g	
TD : 25 µm, Blown Film	430	g	
Seal Initiation Temperature ¹ (25 µm, Blown Film)	100	°C	
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 25.0 µm, Blown Film ²	72		
45°, 25.0 µm, Blown Film ³	38		
Haze			ASTM D1003
25.0 µm, Blown Film ⁴	7.0	%	
25.0 µm, Blown Film ⁵	15	%	
Additional Information	Nominal Value	Unit	
Low Friction Puncture - Blown Film (25.0 µm)	980	J/cm	
NOTE			
1.	Temperature at which a 2 mil film achieves a seal strength of 4.4N/13mm. 0.5 sec dwell, 0.27 N/mm ² bar pressure, 305 mm/min pull speed		
2.	LDPE Blended		
3.	100% LLDPE		
4.	LDPE Blended		
5.	100% LLDPE		

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