

SURPASS® FPs117 Series

Linear Low Density Polyethylene

NOVA Chemicals

Message:

FPs117-C (PPA): Lamination film, coextruded sealant layer, and high toughness film

FPs117-D (1000 ppm Slip, 2500 ppm AB, PPA): Lamination film, coextruded sealant layer, and high toughness film

General Information			
Additive	Antiblock (2500 ppm) [FPs117-D]		
	Antioxidant		
	Processing Aid		
	Slip (1000 ppm) [FPs117-D]		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Heat Seal		
	Good Processability		
	Good Tear Strength		
	Good Toughness		
	Low Density		
	Low Gel		
Uses	Octene Comonomer		
	Film		
	Laminates		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Coextrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	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	ASTM D882
1% Secant, TD : 25 µm, Blown Film	132	MPa	
Tensile Strength			ASTM D882

MD : Yield,25 µm, Blown Film	9.00	MPa	
TD : Yield,25 µm, Blown Film	9.00	MPa	
MD : Break, 25 µm,Blown Film	46.0	MPa	
TD : Break, 25 µm,Blown Film	42.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 µm,Blown Film	540	%	
TD : Break, 25 µm,Blown Film	760	%	
Dart Drop Impact (25 µm, Blown Film)	400	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	300	g	
TD : 25 µm, Blown Film	450	g	
Seal Initiation Temperature (25 µm, Blown Film)	100	°C	
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 25.0 µm, Blown Film ¹	72		
45°, 25.0 µm, Blown Film ²	37		
Haze			ASTM D1003
25.0 µm, Blown Film ³	7.0	%	
25.0 µm, Blown Film ⁴	16	%	
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (25.0 µm)	790	J/cm	Internal Method
NOTE			
1.	LDPE Blended		
2.	100% LLDPE		
3.	LDPE Blended		
4.	100% LLDPE		

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