SURPASS® FPs117-D

Linear Low Density Polyethylene

NOVA Chemicals

Message:

SURPASS® FPs117-D is a Linear Low Density Polyethylene material. It is available in North America for coextrusion or film extrusion.
Important attributes of SURPASS® FPs117-D are:
Antiblock
Food Contact Acceptable
Good Processability
Good Tear Strength
Good Toughness
Typical applications include:
Food Contact Applications
Coating Applications
Film
Sealing Applications

General Information	
Additive	Antiblock (2500 ppm)
	Processing Aid
	Processing Stabilizer
	Slip (1000 ppm)
Features	Antiblocking
	Food Contact Acceptable
	Good Processability
	Good Tear Strength
	Good Toughness
	Low Density
	Low Gel
	Slip
Uses	Film
	Laminates
	Sealants
Agency Ratings	FDA 21 CFR 176.170(c), Table 2, Cond. B
	FDA 21 CFR 176.170(c), Table 2, Cond. C
	FDA 21 CFR 176.170(c), Table 2, Cond. D
	FDA 21 CFR 176.170(c), Table 2, Cond. E
	FDA 21 CFR 176.170(c), Table 2, Cond. F
	FDA 21 CFR 176.170(c), Table 2, Cond. G
	FDA 21 CFR 176.170(c), Table 2, Cond. H
	FDA 21 CFR 177.1520(c) 3.2a

Processing Method	Coextrusion Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm³	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	
Secant Modulus			ASTM D882
1% Secant, MD : 25 µm, Blown Film	135	MPa	
1% Secant, TD : 25 µm, Blown Film	145	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	43.0	MPa	
TD : Break, 25 µm,Blown Film	34.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 µm,Blown Film	550	%	
TD : Break, 25 µm,Blown Film	730	%	
Dart Drop Impact (25 µm, Blown Film)	800	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	320	g	
TD : 25 µm, Blown Film	480	g	
Seal Initiation Temperature [1] (25 µm, Blown Film)	100	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 25.0 µm, Blown Film)	32		ASTM D2457
Haze (25.0 µm, Blown Film)	17	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Low Friction Puncture (25.0 µm)	700	J/cm	Internal Method
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	185 to 200	°C	
NOTE			
1.	2N		

Recommended distributors for this material

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