SURPASS® HPs019-F

Linear Low Density Polyethylene

NOVA Chemicals

Message:

SURPASS® HPs019-F is a linear low density polyethylene material. This product is available in North America and is processed by film extrusion.
SURPASS® The main features of the HPs019-F are:
Antiblock software
Good processability
processing aids
Antioxidants
Good toughness
Typical application areas include:
bag/lining
packing
Movie
industrial applications

General Information	
Additive	Processing aid Anti-caking agent Antioxidation
Features	Low speed solidification crystal point Anti-caking property Antioxidation Workability, good Good strength Good toughness Octene comonomer
Uses	Packaging Films Industrial application Heavy packing bag
Processing Method	Film extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method

	25		
Film Thickness - Tested	76	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	165	MPa	ASTM D882
1% sectioning, MD: 76 µm, blown film	180	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	175	MPa	ASTM D882
1% sectioning, TD: 76 µm, blown film	200	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	9.50	MPa	ASTM D882
MD: yield, 76 µm, blow film	10.0	MPa	ASTM D882
TD: Yield, 25 µm, blown film	9.80	MPa	ASTM D882
TD: yield, 76 µm, blow film	10.0	MPa	ASTM D882
MD: Broken, 25 µm, blown film	49.0	MPa	ASTM D882
MD: broken, 76 µm, blown film	40.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	40.0	MPa	ASTM D882
TD: broken, 76 µm, blown film	40.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	520	%	ASTM D882
MD: broken, 76 µm, blown film	720	%	ASTM D882
TD: Broken, 25 µm, blown film	700	%	ASTM D882
TD: broken, 76 µm, blown film	820	%	ASTM D882
Dart Drop Impact			ASTM D1709A
25 µm, blown film	480	g	ASTM D1709A
76 µm, blown film	1000	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	280	g	ASTM D1922
MD: 76 µm, blown film	1100	g	ASTM D1922
TD: 25 µm, blown film	470	g	ASTM D1922
TD: 76 µm, blown film	1400	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D2457
45, 25.0 µm, blown film	35		ASTM D2457
45 °, 76.2 µm, blown film	40		ASTM D2457
Haze			ASTM D1003
25.0 µm, blown film	22	%	ASTM D1003
76.2 µm, blown film	23	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Low Friction Puncture [1]			Internal method
25.0 µm	550	J/cm	Internal method
76.2 µm	450	J/cm	Internal method

NOTE	
1.	Blown Film

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT