

Nano 67

LEADING EDGE TECHNOLOGY FOR STRETCH FILM



Nanolayer History



5 EXTRUDER 27 LAYER

Skin Bulk (1) Bulk (2) Bulk (3) Skin

6 EXTRUDER 31 LAYER

Skin A				
Functional B				
Functional C				
Functional B				
Functional C				
Functional B				
Functional C				
Functional B				
Skin D				

7 EXTRUDER 33 LAYER

Skin A @ 8% vol.
Functional B + Trim @ 7%
Functional C + Trim @ 7%
Functional B + Trim @ 7%
Functional C + Trim @ 7%
Core (F) @ 8% vol.
Functional C + Trim @ 7%
Functional B + Trim @ 7%
Functional C + Trim @ 7%
Functional B + Trim @ 7%
Skin G @ 8% vol.

- Only 20% nanostructure
 2 extruder with 10% each
 - Difficult to use due to high pressure





55 NANO layer with 50% nanostructure was developed in 2016

HIGH PRESSURE WAS SOLVED, THUS MUCH MORE FLEXIBILITY

Subskin 10%

7
EXTRUDER
55 LAYER

Core 10%

25 Alternating NanoLayers

Subskin 10%

Cling 10%



67 Nanolayer Structure

ALLIANCE FILMS is the **FIRST** company who developed 67 nanolayer with 70 % nano structure in North America.

SML PowerCas t XL

> 7 EXTRUDER 67 LAYER

NORTH AMERICA'S 1st 67-LAYER STRETCH FILM Nano pack 1
Nano pack 3
Core layer 10%
Nano pack 4
Nano pack 2
Skin layer 10%



55 Layer vs 67 Layer

CONVENTIONAL 55 LAYER



Non cling 10%
Subskin 10%
25 Alternating NanoLayers
Core 10%
25 Alternating NanoLayers
Subskin 10%
Cling 10%

SML NANO 67 LAYER



Skin Layer 10%
Nano pack 1
Nano pack 3
Core layer 10%
Nano pack 4
Nano pack 2
Skin layer 10%

Fleedblock



Conventional 55 layer SINGLE FEEDBLOCK



SML Nano 67 layer DOUBLE FEEDBLOCK









Nano 67 THE DIFFERENCE





- 12 micron
- 400 m/min
- 500 m/min
- 600 m/min

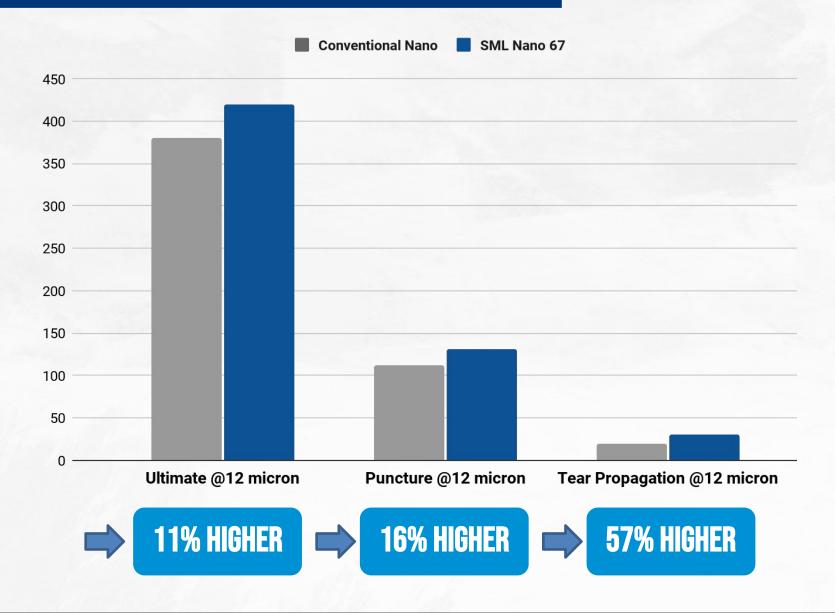
Extruder	Dosing station	Weight ratio (%)	Producer material	Density (g/cm3)	Thickness ratio (%)
Α	1	99.7	C4	0,919	10,0
75/33D	4	0,3	PPA		10,0
В	1	100	mLLDPE MFI 4,5	0,918	25.0
90/33D	2	0			
С	1	100	mLLDPE MFI 3,5	0,918	25,0
90/33D	2	0			
D	1	100	mLLDPE MFI 4,5	0,918	10,0
75/33D	2				
Е	1	100	mLLDPE MFI 3,5	0,918	10,0
75/33D	2				
F	1	100	RC-PP	0,905	10,0
90/33D	2				
G	1	99,7	Cling	0,906	10,0
75/33D	4	0,3	PPA	0,200	



12 micron THE DIFFERENCE













NANO 67 is the **FIRST** in the market and the **FIRST** with 70% nanostructure.

ADVANTAGES

Higher Tear propagation

Higher Puncture resistance

Higher Ultimate

Skin Layer 10%
Nano pack 1
Nano pack 3
Core layer 10%
Nano pack 4
Nano pack 2
Skin layer 10%

