



**Info Sheet**  
Flexible Films

## NOVAPOL® PF-Y818 Series Resins

Up to 20% output increase relative to traditional butene LLDPE

Achieve up to a 20% increase in blown film extrusion output relative to traditional 1MI butene LLDPE – without compromising physical properties – with the NOVAPOL PF-Y818 resin series. PF-Y818 was designed with exceptional melt strength, resulting in superior bubble stability and higher throughput on blown film lines (depending on equipment capabilities). Higher throughput can yield higher revenue per line, and even potentially defer capital expenditures on new lines.



### Features

- Exceptional balance of melt strength and physical properties
- Excellent clarity - haze of just 7%
- Low gels

### Benefits

- Up to 20% increase in blown film line throughput
- Increased per-line revenue
- Outstanding bubble stability enables reduced LDPE usage

### Applications

- Food packaging
- Stretch film
- Industrial liners
- Retail trash bags
- Collation shrink

GRADE	ADDITIVE PACKAGES		
	Slip	Antiblock	Polymer Process Aid
PF-Y818-BPX	1000 ppm	3150 ppm	✓
PF-Y818-CPX	—	2500 ppm	✓
PF-Y818-FX	(Process stabilizer only)		

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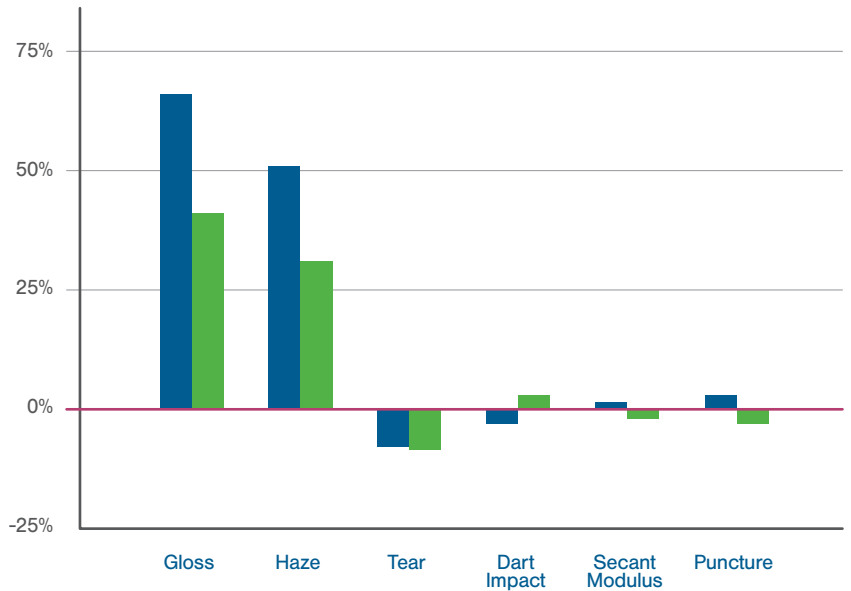
### Performance Comparison

PF-Y818 has significantly improved optics over traditional butene LLDPE and low gels – without sacrificing physical performance.

- baseline = 1 MI butene 840 lb/hr
- PF-Y818-FX 840 lb/hr
- PF-Y818-FX 1000 lb/hr

Three-layer co-extrusion with internal bubble cooling (IBC)

PERCENT IMPROVEMENT



### Productivity Gains

Trials on a commercial W&H line have demonstrated output gains of up to 20%, enabling higher revenue per line and the potential to defer capital investment in new equipment.

Results may be limited by extrusion equipment capabilities.

#### W&H OPTIMEX 3-layer co-ex line with IBC:

- Layer ratios: 20/60/20
- Groove feed extrusion
- 30:1 L/D
- 400 mm (16") die
- 2.25 mm die gap
- 2.5:1 BUR (87" layflat)
- Barrier screws 70 mm/90 mm/70 mm

RELATIVE MAX OUTPUT

