

# Premium Plus Shrink Film (PPS)

42, 55 & 70 gauge

General purpose shrink film with the versatility to wrap small, lightweight to large, heavy products and everything in between.

## Film Highlights:

### Material

Up to 50 Micro-layers of film provides strength for a broad array of applications.

### Toughness

Strong and easy to use. Adapts to a wide range of equipment. Performs better than materials up to twice the thickness.

### Sustainability

Lower carbon footprint due to less material used. Energy savings due to lower temperature requirement in the shrinking process leading to less electricity consumption.

### Recyclable

Meets the requirements for SPI recycle code "4" and can be introduced into the LDPE recycle stream.

tufflexpackaging.com

1000 Abernathy Rd NE, Suite 1700  
Atlanta, GA 30328 | USA

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Properties	ASTM Test Method	42 ga. Typical Values	55 ga. Typical Values	70 ga. Typical Values
Gauge		42	55	70
Impact Strength Peak Load (lb)	D3763-95a	11.4	14.3	20
Haze %	D1003-95	2.7	3	3.9
Clarity %	D1746-92	82.8	82.7	78.4
Gloss %	D2457-90	85	84	84
Coefficient of Friction (film /film, kinetic)	D1894-95	0.193	0.148	0.133
Moisture Vapor Transmission Rate (gms /100 sq in / 24 hrs /atm)	F1249-90	1.56	1.33	0.95
Oxygen Transmission Rate (cc /m <sup>2</sup> /24 hrs /atm)	D3985-95	11970	9280	6960
Tensile Strength (×1000 psi)	D882-95	19.1/19.8	17.7/19.2	17.4/19.5
Elongation at Break %	D882-95	92/93	94/120	120/130
Modulus (×1000 psi)	D882-95	65.4/64	62.3/63.4	53/63.8
Elmendorf Tear (g)	D1922	23.2/25	34.6/34.1	46.9/42.5
<b>Shrink Tension (psi)</b>	D2838-95			
@ 200° F		313/585	355/540	288/573
@ 220° F		420/629	441/617	364/623
@ 240° F		537/637	498/599	430/596
<b>Free Shrink %</b>	D2732-83			
@ 200° F		10/16	11/16	10/18
@ 220° F		18/30	20/29	18/30
@ 240° F		53/58	55/59	54/58

\* LD = Longitudinal Direction / TD = Transverse Direction