

## Clysar® HPG

Clysar® HPG and Clysar HPGF (F stands for center-folded film. No change to the formulation of manufacturing process) are polyolefin-based shrink films that meet USPS polywrap requirements (USPS T-3204) for mail pieces that are mailed at automation-flat rates.

Property		Range	Test Method	Target
1a.	<b>Kinetic Coefficient of Friction, MD Film on Stainless Steel w/ No. 8 Mirror Finish</b>	< 0.45	ASTM D1894	0.20
1b.	<b>Kinetic Coefficient of Friction, MD Film on Film</b>	0.20 – 0.55		0.20
2	<b>Haze</b>	< 70	ASTM D1003	Max. 3
3a.	<b>Secant Modulus, 1% Elongation TD</b>	> 50,000 psi	ASTM D882	52,000
3b.	<b>Secant Modulus, 1% Elongation MD</b>	> 40,000 psi		48,000
4	<b>Nominal Gauge</b>	> 0.001 in	ASTM D374	0.00110 0.00125 0.00150
5	<b>Static Charge</b>	< 2.0 kV	ASTM D4470	1.5
6	<b>Blocking</b>	< 15 g	ASTM D3354	10

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