

BOPP Injection Molding Films Technical Specification

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1. Product Overview & Applications

BOPP Injection Molding Films are designed for high-performance in-mold labeling applications and are available in four finishes:

- **Transparent:** Provides a high-gloss, ultra-clear finish for a no-label look.
- **Metallized:** Features a vacuum metallized aluminum coating for barrier protection and premium appearance.
- **Solid White:** High-opacity white finish for bold, high-contrast printing.
- **Orange Peel:** Textured surface for a unique aesthetic and enhanced scuff resistance.

These films provide excellent moldability, heat resistance, and compatibility with high-speed injection molding processes. They are widely used in rigid container branding for food, beverage, cosmetics, and household products.

2. Technical Specifications

Category	Property	Unit	Transparent	Metallized	Solid White	Orange Peel
Physical	Density	g/cm3	0.91	0.91	0.91	0.65
	Thickness	um	35-70 +/-2	35-70 +/-2	35-70 +/-2	35-70 +/-2
Optical	Gloss (45 deg)	GU	>= 90	>= 90	>= 90	>= 85
	Opacity	%	>= 92	>= 94	>= 96	>= 90
Mechanical	Tensile Strength (MD/TD)	MPa	>= 100/200	>= 100/200	>= 100/200	>= 100/200
	Elongation at Break (MD/TD)	%	<= 180/50	<= 180/50	<= 180/50	<= 180/50
Surface	Surface Tension	mN/m	>= 38	>= 38	>= 38	>= 38
Thermal	Heat Resistance	C	Up to 130	Up to 130	Up to 130	Up to 130

3. Storage & Handling

- Store in a cool, dry environment (Temperature: 10-25°C, Humidity: 40-60%).
- Avoid direct sunlight and drastic temperature fluctuations to prevent film deformation.
- Keep in a dry, ventilated area to avoid moisture affecting label adhesion.
- Handle with care to prevent surface scratches or contamination.

Hardvogue Limited

Address: Xixi Shouzuo, Wenyi Road, West Lake District, Hangzhou City, China 310030

Email: sales@hardvogue ltd.com

Website: www.hardvogue.com

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