

Propafilm™ MVG80

Polypropylene Alloy

Innovia Films Ltd.

Message:

Metallizable Film

Biaxially oriented polypropylene (BOPP) film co-extruded on both sides with heat sealable polyolefinic polymers.

MVG is suitable for vacuum metallizing with aluminium and other substances. The metallized surface may be over-printed or lacquered. MVG80 is normally metallized for use in laminations with other substrates, particularly Propafilm RGP. MVG120 can be metallized for use as a single web film in horizontal form-fill-and-seal applications.

General Information			
Features	Low temperature heat sealability		
	Moisture proof		
	Moisture resistance		
	Excellent printability		
	Heat sealable		
	Good adhesion		
	Gas barrier property		
	Compliance of Food Exposure		
	Excellent appearance		
Uses	Bi-axially Oriented Film		
	Packaging		
	Laminate		
Appearance	Metallized - Clear		
Forms	Films		
Processing Method	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			Internal method
Flow: 129°C, 1 minute	6.0	%	Internal method
Transverse flow: 129°C, 1 minute	-1.0	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With itself-dynamic, outer layer/outer layer	0.50		ASTM D1894
With itself-static, outer layer/outer layer	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus ¹			ASTM D882
1% secant, MD	2690	MPa	ASTM D882
1% secant, TD	2290	MPa	ASTM D882
Tensile Strength ²			ASTM D882

MD: Yield	239	MPa	ASTM D882
TD: Yield	190	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Fracture	90	%	ASTM D882
TD: Fracture	130	%	ASTM D882
Seal Strength ⁴	0.14	N/mm	Internal method
Seal Initiation Temperature ⁵	116 - 146	°C	Internal method
Oxygen Permeability (23°C, 0% RH)	58	cm ³ ·mm/m ² /atm/24 hr	ASTM F1927
Water Vapor Transmission Rate (38°C, 90% RH)	7.4	g/m ² /24 hr	ASTM F1770
Corona Treatment	38	dyne/cm	Internal method
Film thickness	80.0		Internal method
Yield	55.0	m ² /kg	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (20°)	105		ASTM D2457
Haze ⁶	2.0	%	ASTM D1003

NOTE

- | | |
|----|---|
| 1. | 10%/min |
| 2. | 50%/min |
| 3. | 50%/min |
| 4. | 265°F; 2secs; 15lb/in ² ; untreated to untreated |
| 5. | 2secs; 15lb/in ² ; untreated to untreated |
| 6. | Wide angle, 2.5° |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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