

Propafilm™ MVG120

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	Ablation Resistant		
	Excellent Printability		
	Food Contact Acceptable		
	Gas Barrier		
	Good Adhesion		
	Good Surface Finish		
	Heat Sealable		
	Low Temperature Heat Sealability		
	Moisture Barrier		
	Moisture Resistant		
Uses	Bi-axially Oriented Film		
	Laminates		
	Packaging		
Appearance	Metallized - Clear		
Forms	Film		
Processing Method	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			Internal Method
Flow : 129°C, 1 min	6.0	%	
Across Flow : 129°C, 1 min	-1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic, Outside/Outside	0.50		
vs. Itself - Static, Outside/Outside	0.50		
Films	Nominal Value	Unit	Test Method
Secant Modulus ¹			ASTM D882
1% Secant, MD	2690	MPa	
1% Secant, TD	2290	MPa	

Tensile Strength ²			ASTM D882
MD : Yield	239	MPa	
TD : Yield	190	MPa	
Tensile Elongation ³			ASTM D882
MD : Break	90	%	
TD : Break	130	%	
Seal Strength ⁴	0.14	N/mm	Internal Method
Seal Initiation Temperature ⁵	116 to 146	°C	Internal Method
Oxygen Permeability (23°C, 0% RH)	41	cm ³ ·mm/m ² /atm/24 hr	ASTM F1927
Water Vapor Transmission Rate (38°C, 90% RH)	5.0	g/m ² /24 hr	ASTM F1770
Corona Treatment	38	dyne/cm	Internal Method
Film Gauge	120		Internal Method
Yield	36.7	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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