

Propafilm™ MLP80

Polypropylene Alloy

Innovia Films Ltd.

Message:

Printable High Speed Overwrapping Film

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

MLP80 is generally used for high speed overwrapping of packets and cartons where there is a requirement for the film to carry print.

General Information			
Features	Excellent Printability		
	Flavor & Aroma Barrier		
	Food Contact Acceptable		
	Heat Sealable		
	Moisture Barrier		
	Moisture Resistant		
	Pleasing Surface Appearance		
	Slip		
Uses	Bi-axially Oriented Film		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Film		
Processing Method	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			Internal Method
Flow : 120°C, 1 min	5.0	%	
Flow : 130°C, 1 min	7.0	%	
Across Flow : 120°C, 1 min	4.0	%	
Across Flow : 130°C, 1 min	7.0	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic, Outside/Outside	0.30		
vs. Itself - Static, Outside/Outside	0.40		
Films	Nominal Value	Unit	Test Method
Secant Modulus ¹			ASTM D882
1% Secant, MD	3000	MPa	
1% Secant, TD	3600	MPa	
Tensile Strength ²			ASTM D882
MD : Yield	170	MPa	
TD : Yield	210	MPa	

Tensile Elongation ³			ASTM D882
MD : Break	110	%	
TD : Break	100	%	
Seal Strength ⁴	0.15	N/mm	Internal Method
Seal Initiation Temperature ⁵	110 to 146	°C	Internal Method
Oxygen Permeability (23°C, 0% RH)	38	cm ³ · mm/m ² /atm/24 hr	ASTM F1927
Water Vapor Transmission Rate			ASTM F1770
23°C, 85% RH	0.93	g/m ² /24 hr	
38°C, 90% RH	6.0	g/m ² /24 hr	
Film Gauge	80.0		Internal Method
Yield	54.9	m ² /kg	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (20°)	130		ASTM D2457
Haze ⁶	1.3	%	ASTM D1003
NOTE			
1.	10%/min		
2.	50%/min		
3.	50%/min		
4.	248°F; 2secs; 15lb/in ²		
5.	2secs; 15lb/in ²		
6.	Wide angle; 2.5°		

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