

DURAMET[®] BOPP

High Barrier Metallized & Top-Coated Polypropylene Developmental Data Sheet

Top-coated and Metallized One Side, Heat Sealable Other Side

A Metallized and protective top-coated and metallized co-extruded bi-axially oriented polypropylene film with the following features:

- ◆ Wide seal range, with good hot tack and excellent web flatness
- ◆ Superior metal adhesion and resistance to “crazing” from extrusion lamination
- ◆ Outstanding oxygen and moisture barrier

Properties	Typical Value		Units	Test Method
Yield	61,0	35,5	m ² /kg	
Thickness	18	30	μm	
Tensile Strength	MD TD	117,2 206,8	17,0 30,0	N/mm ² ASTM D882
Tensile Modulus	MD TD	1723,7 3102,6	250,0 450,0	N/mm ² ASTM D882
Elongation	MD TD	190 70	%	ASTM D882
Optical Density	2,0		Tobias Densitometer	CMP OD-1
Light Transmission	< 1,0		%	
Shrinkage	MD TD	< 5,0 < 3,0	%	5 min, 130 °C (air oven)
Co-efficient of Friction (Sealable to sealable side)	0.45 0.30		Static Kinetic	ASTM D1894
(Metal to metal side)	0.6 0.5		Static Kinetic	
Heat Seal Range	100-150		°C	0.5 s/ 30 psi
WVTR	0,24	0,14	g/m ² /24 hr.	ASTM E-398 (37,8°C, 90% RH)
OTR	3,88	2,95	cc/m ² /24 hr.	ASTM D-3985 (23°C, 50% RH)
Metal Adhesion	2,5		N/25mm	CMP MA-1

The polypropylene side is in compliance with the regulation FDA 21 CFR 177.1520 (c) (1.1) and (3.1). Non-objection approval letter is on file from Health Protection Branch of Canadian Food Inspection Agency (CFIA).

This film also complies with relevant requirements of the Swiss Chemicals Ordinance SR 813.11(ChemO) and European Regulation No. 10/2011 for food contact.

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