celplast
metallized products

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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	CMP OD-1
Light Transmission		< 1,0		%	
Shrinkage	MD TD	< 5,0 < 3,0		%	5 min, 130 ºC (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		ºC	0.5 s/ 30 psi
WVTR		0,24	0,14	g/m^2/24 hr.	ASTM E-398 (37,8ºC, 90% RH)
OTR		3,88	2,95	cc/m^2/24 hr.	ASTM D-3985 (23ºC, 50% RH)
Metal Adhesion		2,5		N/25mm	CMP MA-1

The polypropylene side complies 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 the Canadian Food Inspection Agency (CFIA).
This film also complies with the relevant requirements of the Swiss Chemicals Ordinance SR 813.11(ChemO) and European Regulation No. 10/2011 for food contact.

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