Nanolok™ WR 20135A

Product Data Sheet

Product Description

High Barrier, Water Based, Environmentally Friendly, Nanocomposite Barrier Coating for Transparent Sustainable Packaging

Coating Formulation Properties

Property	Typical Value	Units
Oxygen Permeability	2.0 – 3.0 0.005 - 0.008	cc-µ/m^2-day-atm cc-mil/100 in^2-day-atm
Solid Content	12.0 – 14.0	%
pH	6 - 8	
Viscosity	10 - 20	cP (100 rpm, 132 sec^{-1})

- Excellent barrier up to 85% RH
- Large enhancements of moisture barrier when coated on flexible packaging films
- Provides source reduction and/or improved sustainability relative to EVOH & PVDC
- More cost effective than EVOH
- 2x the solid content of InMat's other products reducing the required drying time resulting in a higher speed coating process
- Meets compostibility standards on bio-derived films
- Compliant with US and European food contact standards
- Can be used for wide range of food applications including meat and cheese
- Can be applied at high speeds using standard gravure coating methods
- No halogen, VOC's, or hazardous materials

InMat Inc.
216 Route 206 Suite 7, Hillsborough, NJ 08844 USA
(908) 874-7788 phone (908) 874-7672 fax
www.inmat.com

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Coated Film Properties

Base Film			PET 48 gauge	
Property	Units	RH		
Coating Thickness	micron		**1.0 ± 0.1**	
OTR 23C	cc/m^2-day-atm (cc/100 in^2-day-atm)	0%	**2.5**	**(0.16)**
		65%	**1.8**	**(0.12)**
		80%	**3.9**	**(0.25)**
		85%	**9**	**(0.6)**
MVTR 38C	0.9 um coating gm/m^2-day (gm/100 in^2-day)	85%	**7.5**	**(0.5)**
Adhesion	gm/inch	23C	**>300**	

Comparison of Coated and Uncoated Film

Film	Nanolok WR 20135A coating thickness (microns)	MVTR 38C, 85% RH (gm/m^2-day-atm)
PET 48 gauge	None	45
	0.9	**7.5**
PLA 80 gauge	None	275
	0.9	21