



### *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- $\mu$ /m <sup>2</sup> -day-atm cc-mil/100 in <sup>2</sup> -day-atm
Solid Content	12.0 – 14.0	%
pH	6 - 8	
Viscosity	10 - 20	cP (100 rpm, 132 sec <sup>-1</sup> )

- 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](http://www.inmat.com)



# Nanolok™ WR 20135A

## Product Data Sheet

### Product Description

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

### Coated Film Properties

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

### Comparison of Coated and Uncoated Film

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