



### *Product Description*

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

### Coating Formulation Properties

Property	Typical Value	Units
Oxygen Permeability	0.1 - 0.2 0.0002 - 0.0005	cc- $\mu$ /m <sup>2</sup> -day-atm cc-mil/100 in <sup>2</sup> -day-atm
Solid Content	6.5 - 7.5	%
pH	6 - 8	
Viscosity	50-60	cP (30 rpm, 39.6 sec <sup>-1</sup> )

- Lower cost option
- Excellent optical transparency with no color
- Excellent barrier up to 65% RH
- Large enhancements of moisture barrier when coated on flexible packaging films
- Meets compostibility standards on bio-derived films
- Compliant with US and European food contact standards
- Targets dry food applications such as salty snacks, nuts, coffee
- Can be applied at high speeds using standard gravure coating methods
- No halogen, VOC's, or hazardous materials

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# Nanolok™ EXC 1007V

## Product Data Sheet

### Product Description

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### 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>0.1</b>	<b>(0.006)</b>
		50%	<b>0.2</b>	<b>(0.01)</b>
		65%	<b>3.5</b>	<b>(0.2)</b>
MVTR 38C	0.7 um coating gm/m <sup>2</sup> -day (gm/100 in <sup>2</sup> -day)	85%	<b>25</b>	<b>(1.6)</b>
Adhesion	gm/inch	23C	<b>&gt;300</b>	

### Comparison of Coated and Uncoated Film

Film	Nanolok EXC coating thickness (microns)	MVTR 38C, 85% RH (gm/m <sup>2</sup> -day-atm)
PET 48 gauge	None	45
	<b>0.7</b>	<b>25</b>
BOPP 80 gauge	None	8
	0.9	5
PLA 80 gauge	None	275
	0.8	120