Nanolok™ EXC 1007V

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	0.1 - 0.2 0.0002 - 0.0005	cc-µ/m^2-day-atm cc-mil/100 in^2-day-atm
Solid Content	6.5 - 7.5	%
pH	6 - 8	
Viscosity	50-60	cP (30 rpm, 39.6 sec^{-1})

- 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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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%	**0.1**	**(0.006)**
		50%	**0.2**	**(0.01)**
		65%	**3.5**	**(0.2)**
MVTR 38C	0.7 um coating gm/m^2-day (gm/100 in^2-day)	85%	**25**	**(1.6)**
Adhesion	gm/inch	23C	**>300**	

Comparison of Coated and Uncoated Film

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