



# NanoLok™ PT 3575

## Product Data Sheet

### *Product Description*

NanoLok™ PT is an environmentally-friendly, aqueous suspension of nano-dispersed silicate and polyester resin. It is used as a barrier coating and can be applied to PET film via roll coating, spray or dip processes. It provides the highest gas barrier level of any polymeric coating available on the market today.

### *Liquid Coating Specifications*

| Property                                 | Unit                                     | Value   |
|--|--|---------|
| <b>Dried Film on PET</b><br>Permeability | Cc mil/100in <sup>2</sup> day atm        | 0.005   |
| <b>Liquid</b><br>Solid Content           | %  | 7-10    |
| pH                                       |  | 6-8     |
| Viscosity                                | cP @ 3 rpm, 25C<br>Brookfield Viscometer | 300-600 |

### *Typical Properties of a PET- NanoLok™ PT Coated Film*

| Property                                      | Unit                          | Value       |
|---|-------------------------------|-------------|
| <b>Thickness</b><br>PET film                  | Mil (microns)                 | 0.5 (12.5)  |
| NanoLok™ dried film                           |                               | 0.05 (1.25) |
| <b>Barrier</b><br>Oxygen Transmission Rate    | Cc/100in <sup>2</sup> day atm | 0.08        |
| <b>Optical</b><br>Haze – InMat method, 633 nm | %                             | 12          |
| Light Transmission                            | %                             | 88          |
| <b>Thermal</b><br>Shrinkage TD – InMat method | %                             | 0           |
| Shrinkage MD – InMat method                   | %                             | 0.7         |
| <b>Surface</b><br>Tension                     | dynes                         | 44          |

**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)