

# RUST PREVENTION

## CORROSION MANAGEMENT SOLUTIONS



## ARMOR POLY FILM®

### LLDPE Film

### FEATURES AND BENEFITS

ARMOR film technology sets industry standards for high performance and innovation. **ARMOR POLY®** films are transparent and heat sealable, providing the combined benefit of barrier and anti-corrosion protection in an easy to use form. ARMOR's proprietary Bright Idea Technology™ provides visible proof under black light that VCI is present in all **ARMOR POLY®** products.

**ARMOR POLY®** is the most cost-effective VCI film solution in the industry combining quality, performance and aggressive pricing.

**ARMOR POLY®** is available in sheeting, bags, tubing, shrink film, zipper closure, wickets, pre-opened bags and more.

The proprietary ARMOR VCI Nanotechnology comes with more than 30 years of industry experience. With service on 4 continents and in more than 25 countries, ARMOR is positioned to provide corrosion management solutions wherever and whenever you need them.

Conforms/Approved By:

- FDA for use in equipment packaging
- Global OEM companies
- RoHS Compliant
- NACE Std TM0208-2008



### APPLICATIONS

**ARMOR POLY®** is a linear low density, polyethylene mono-extruded film that utilizes Armor's proprietary Vapor and Contact Corrosion Inhibitor (VCI) formulation designed for medium to long term storage (approximately 3 years).

### WHY ARMOR?

*Armor Protective Packaging® provides the industry's cleanest, easiest, safest and most effective corrosion management systems for metal products to a global customer base. ARMOR's full line of vapor corrosion inhibitor (VCI) packaging products, desiccants and our rust removal and prevention liquids are designed to protect metals before, during and after transport or storage. ARMOR's industry reputation as a trusted business partner has been built by serving our customers and preserving their investments for more than a quarter-century.*



# TECHNICAL DATA

## ARMOR PROTECTIVE PACKAGING CORROSION MANAGEMENT SOLUTIONS

### ARMOR POLY® FILM

#### Product Overview

Linear low density polyethylene tubing, sheeting, and bags impregnated with ARMOR® Vapor & Contact Corrosion Inhibitor (VCI) formulation for ferrous and non-ferrous metals. Designed for long-term storage of ferrous and non-ferrous metals. Non-toxic.

#### Parameters

GAUGE (range available: .001" to .012")	0.004" (+/-) 10%
TENSILE STRENGTH (PSI) AT BREAK	
ASTM TEST #D-882	
Machine Direction	3,200-4,000 lbs./sq. in.
Cross Machine Direction	3,200-4,000 lbs./sq. in.
ELONGATION – ASTM #D-882	
Machine Direction	450-550 percent
Cross Machine Direction	650-850 percent
SEAL STRENGTH – ASTM #D-882	
Percent	85% of film
Sealing Temperature	340° - 380° F
Dart – ASTM #1709	65-80 grams/mil
WVTR	0.16 - 0.18 g/100 in <sup>2</sup> in 24 hrs
OTR	70 – 80 cc/100 in <sup>2</sup> in 24 hrs
VCI CHEMICAL CONTENT	Does not contain secondary amines

#### Recommended Applications

Both ferrous and non-ferrous metals including steel, iron, copper, brass, zinc, galvanized (zinc plated steel and iron). Cadmium and aluminum, nickel and nickel alloys should be evaluated in the usual method of handling. Armor Protective Packaging® recommends testing your product's compatibility with our ARMOR POLY® VCI in vapor phase and as a contact inhibitor.

#### Proper Storage

Material should be kept in original wrapping or the equivalent during storage of partial rolls or sheets.

**CAUTION: Wash hands thoroughly after handling this product and before eating.**

All products manufactured Armor Protective Packaging® are warranted to be first class products and free from defects in material and workmanship. Liability under this warranty is limited to the net purchase price of any of such products proven defective or at our option to the repair or replacement of said products upon their return to us transportation prepaid. All claims on defective products must be made in writing 30 days after the receipt of such products in your plant and prior to further processing or combining with other materials and products. We make no warranty, express or implied, as to the suitability of any of our product for any particular use, and we shall not be subject to liability from any damages resulting from their use in operations not under our direct control. This warranty is exclusive of all other warranties, express or implied, and no representative of ours or any other person is authorized to assume for us any other liability in connection with the sale of our products.

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