

Corrosion Management Solutions



RUST PREVENTION

CORROSION MANAGEMENT SOLUTIONS

ARMOR POLY FILM®

Defender™ Film

FEATURES AND BENEFITS

ARMOR film technology sets industry standards for high performance and innovation. ARMOR's proprietary Bright Idea Technology[™] provides visible proof under black light that VCI is present in all **ARMOR POLY**® products.

The **DEFENDER**[™] is an economical, co-extruded VCI film that provides a high level of protection, without the high costs. The **DEFENDER**[™] utilizes three layers of film with specific characteristics used to prevent corrosion, provide additional barrier protection, and increase durability and puncture resistance over mono-extruded VCI films.

The **DEFENDER™** multi-layer film system results in a 60% decrease in oxygen transmission (2.5x barrier protection) compared with standard film.

ARMOR's proprietary VCI nanotechnology comes with over 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.

Non-toxic, environmentally friendly, and recyclable.

APPLICATIONS

ARMOR'S **DEFENDER**[™] saves money because unlike 99% of VCI bags in the packaging industry, the **DEFENDER**[™] contains resin on the inside layer only, not on the outside layer where it's never utilized. This results in a 10-15% product savings.

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.



For technical Assistance Contact :: 09176900601 / 09176900603 or cs@armorvci.net



THE DEFENDER™

Product Overview

DEFENDER[™] poly film utilizes advanced polyethylene film extrusion to form a construction of three engineered layers that provide increased durability and outstanding corrosion inhibition.

Outside Layer: Low density polyethylene with super hexene for added toughness and medium slip for proper feel and tape adhesion.

Center Layer: Proprietary high density polyethylene barrier resin provides superior strength and an excellent barrier to elements that cause corrosion.

Inside Layer: ARMOR POLY® VCI – Linear low density polyethylene with high concentration of multimetal VCI.





THE DEFENDER™

Physical Date				
THICKNESS (range available)			50 microns	75 microns
TENSILE STRENGTH - ASTM TEST #D-882				
Machine Di	irection	(MPa)	30	34
Transverse	Direction	(MPa)	30	33
TEAR STRENGTH - ASTM #D-1922				
Machine Di	irection	(grams)	550	850
Transverse	Direction	(grams)	1,000	1,400
ELONGATION – ASTM #D-882				
Machine Di	irection	(%)	650	800
Transverse	Direction	(%)	800	950
TYPE OF VCI CO	MPOUND		Proprietary VCI Content	

Disclaimer : The values mentioned above are typical. Actual value of the products will very within a specified range

Proper Storage

Material should be kept in original wrapping or equivalent during storage of partial rolls or sheets (overnight, weekends, or holidays).

ARMOR Protective Packaging® recommends testing your product's compatibility with the Defender® in vapor phase and as a contact inhibitor.

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