

## TECHNICAL DATASHEET

### Product: VCI Lamina Film and VCI Lamina Shrink Film

*Grade: 3 Layer Lamina VCI Film X linked 250 and 200 micron*

## Product Description

### VCI Lamina Film

VCI Lamina Films are manufactured using state of the art SMP Technology for speedy moisture passivation and provides long term corrosion protection to the packaged parts. VCI Lamina Films when sealed isolates the packed coils and sheets from influx of humidity and VCI pacifies the environment inside the packaging. VCI Lamina films are suitable for ferrous and non ferrous metals and inhibit the development of corrosion, tarnishing etc for up to 5 years in a complete system designed by

### VCI Lamina Shrink Film

VCI Lamina Shrink Film is a specially designed product for the packaging of heavy equipment, armament, pallets, vehicles, automotive parts, engines, wind mills, power plant equipment, chemical plant equipment etc. VCI Lamina Shrink film provides better corrosion protection compared to using ordinary Shrink Film and provides a single product with multiple features such as abrasion protection, movement restriction, water barrier as well as moisture barrier hence providing excellent option for long term preservation. The VCI properties of the shrink film provides long term corrosion resistance due to the vapor corrosion inhibiting technology induced in the shrink film. The protective vapors are emitted from the film, which have the tendency to neutralize the moisture as well as form a multi-molecular film on the surface of the metal and inhibit the electrolytic process of oxidation.

Films are cross linked which increases the strength between the molecular chain and provides very high tear and tensile strength and dart impact.

The film can be printed in up to 6 colors

## Application, Method of use and Suitability:

The product to be packed can be wrapped with shrink film and then passed through heating tunnel or subjected to hot air through a gas gun or heated air gun. The temperature for shrinking tunnel needs to be maintained above 150 C. This does not mean that the product will also reach 150 C. The process increases the temperature of the film and there is hardly any impact on the temperature of the product inside.

Ideal for:

Wrapping coils

Wrapping galvanized sheets and coils

Wrapping tubes and wires

Wrapping electrical grade steel

Wrapping stainless steel

Wrapping copper and aluminum sheets

Wrapping metal bodes, engines, turbines, heavy equipment

Wrapping castings, forgings, sheet metal

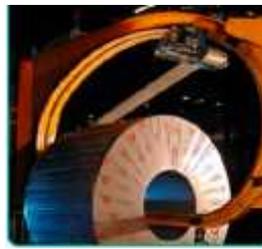
Wrapping electrical panels, motors

## Safety Information

SASA products do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the re-stricted substances listed in Article 4(1) of the RoHS Directive.

SASA products are also REACH Compliant for exports to the European Union.

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## Physical, Chemical & Corrosion Prevention Properties

Colour	Visual	Outer Green	White	Inner	Outer White	Inner Blue
Thickness Availability	Micrometer	250 microns			200 microns	
Specific Gravity	ASTM D 1298	Approx 1			Approx. 1	
Surface pH	Universal Solution	Indicator	8 to 9		8 to 9	
VCI Test (VIA)			Pass		Pass	
Salt Spray in VCI	ASTM B 117		24 hours +		24 hours +	
Tensile Strength	ASTM D882-02					
MD	Kg/Cm <sup>2</sup>		210		238	
TD	Kg/Cm <sup>2</sup>		196		224	
Elongation at Break	ASTM D882-02					
MD	%		738		900	
TD			714		846	
Dart Impact Strength	Gf		570		380	
Tear Strength						
MD	Mn/mic		36		40	
CD	Mn/mic		45		68	
PE Content			40-50%		40-50%	
VCI Content			12-15%		12-15%	
Other proprietary blends			30-40%		30-40%	
UV protection	Months		12-18 months		12-18 months	