





PRODUCT NAME - RUST-X Non VCI Lamina Shrink Film

PRODUCT CODE - Grade: 3 Layer Lamina Film X linked 250 and 200 micron

PRODUCT DESCRIPTION

RUST-X 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.

RUST-X Shrink Film provides has got multiple features such as abrasion protection, movement restriction, water barrier, UV Stabilized as well as moisture barrier hence providing excellent option for long term preservation.

The film is available as tube, sheet or in the form of 3-D covers to wrap the equipment suiting the size of the equipment or the pallet. The film is very tough and cannot be stretched or punctured easily after shrinking.

Shrink film has excellent protection against UV radiation and the packaging can be stored outdoor for up to 2 years.

The film is available as transparent also for ease of visibility of the part or equipment packed in it.

FEATURES

Powerful and extremely strong and excellent

pliability to conform to coil configurations

- Multi-metal protection for all surfaces
- High stretch ability
- Sharp edge resistance due to multi-molecular linking for increased strength
- Minimal equipment investment with substantial reduction in labor costs
- Increased production through-put
- Reduces usage cost and associated problems
- Dry packaging compatible product
- Quick to use, remove and easy to recycle

UV PROTECTION

European norm: EN 13206:2001

Film duration: it's determined following the procedure described in the European norm EN13206, exposing plastic film in suitable machines equipped with specific lamps (those lamps irradiate a radiation similar to solar type).

To determine film duration, the adopted criterion only considers material degradation obtained in laboratory through the quick artificial ageing (Weather-o-meter or Wom).

The duration of a covering material is proportional to the period of exposure to the artificial ageing after which mechanical properties are not considered as more sufficient.

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Film classification on the base of artificial accelerated ageing

UV PROTECTION PROPERTIES

Film classification on the base of artificial accelerated ageing

Film Class	Duration (Hours)		
N	≥400		
Α	≥1700		
В	≥3200		
С	≥4600		
D	≥ 6000		
E	≥ 7300		

Correlation between natural ageing and artificial accelerated ageing (for film PE, EVA and EBA)

Climatic area kLy/Year	Predicted duration of film (years) Exposition to Wom (hours)				
70-100 (North-	170	3500	5300		
Europe)	0			7100	
100-130 (Centre-	2800	5600	8400		
Europe)					
130-160 (South-	3900	7800			
Europe)				-	

USEAGE

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.

Use of gloves while handling the components as well as immediate packaging is important.





PACKAGING AND STORAGE

Store in a cool dry place and always keep film wrapped when not in use.



















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TECHNICAL PROPERTIES

Physical	Test	Non VCI Lamina Shrink	
Properties	Method	Film	
Colour	Visual	White	White
Thickness		250	
Availability	Micrometer	microns	200 microns
	ASTM D	Approx	
Specific Gravity	1298	1	Approx. 1
Surface pH	Universal	8 to 9	8 to 9
Tensile	ASTM D882		
Strength MD	-02 Kg/Cm ²	210	238
TD	Kg/Cm ²	196	224
Elongation at	ASTM		
Break	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		NA	NA
Other proprietary blends		30-40%	30-40%
		12-18	12-18
UV protection	Months	months	months

APPLICATIONS

- · Machinery Packaging
- Steel Coils
- Galvanized sheets and coils
- Metal Tubes and wires
- Electrical grade steel Stainless steel
- · Copper and Aluminum sheets
- Wrapping metal bodies, engines, turbines, heavy equipment
- Wrapping castings, forgings, sheet metal
- Wrapping electrical panels, motors

DISPOSAL

Recommendation: Do not allow product to reach sewage system.

Disposal of product or waste must comply with official local regulations.

Packaging that cannot be recycled must be disposed in the same manner as the product.

HEAVY METALS DECLARATION

RUST-X Rust Preventive products do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the restricted substances listed in Article 4(1) of the RoHS Directive. RUST-X Rust Preventive Oils are also REACH Compliant for exports to the European Union.

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SAFETY INFORMATION

- · Keep Out Of Reach Of Children
- Keep Container Tightly Closed
- Not For Internal Consumption
- Consult Material Safety Data Sheet For More Information
- Safe for people
- This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom and CA WHMIS regulations.
- Changes in the properties of metals. The protective molecules dissipate upon opening of package.

DECLARATION

This Data sheet and information it contains is considered to be accurate at the date of printing. No representation or warranty, expressed or implied is made as to the accuracy or completeness of the data and information contained in this publication. It is the User's obligation to evaluate and use products safely and within the scope advised in the data sheet and to comply with all applicable laws and regulations.

LIMITED WARRANTY

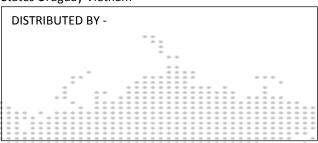
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shall be limited to the value of the film sold.

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