

DRUM COVERS MASKING COVERS MASKING CAPS

TECHNICAL PRODUCT INFORMATION SHEETS

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(1) FILM STRENGTHS - Standard Polythene Masking Covers

Standard films have strengths as per the following table however thicker films are available on request.

	Standard Grade	Tolerance
Open Width [ISO 4592:1992(E)] measured in mm	Various	± 5%
Length [ISO 4592:1992(E)] measured in mm	Various	± 5%
Thickness: [ISO 4593:1993(E)] measured in Micron's	50	± 10%
Falling Weight Impact Resistance (M 50): [BS 2782:Part 3:Method 352D:1979] measured in grams (g)	190	Minimum
Tear Resistance (Elmendorf) in Machine Direction: [ISO 6383-2:1983] measured in Newton's	85	Minimum
Tear Resistance (Elmendorf) in Transverse Direction: [ISO 6383-2:1983] measured in Newton's	170	Minimum
Tensile Strength in Machine Direction (σ_M): [ISO 527-3:1995/2/500] measured in Megapascals (MPa)	10	Minimum
Nominal Tensile Strain at Break in Machine Direction (ϵ_B): [ISO 527-3:1995/2/500] measured as a percentage (%)	240	± 45
Tensile Strength in Transverse Direction (σ_M): [ISO 527-3:1995/2/500] measured in Megapascals (MPa)	8	Minimum
Nominal Tensile Strain at Break in Transverse Direction (ϵ_B): [ISO 527-3:1995/2/500] measured as a percentage (%)	550	± 150
Puncture Strength: [Internal Test Method] measured in Newton's	28	Minimum
Puncture Extension: [Internal Test Method] measured in mm	36	±6

(2) CORROSION TESTS: Anti-Rust VCI Polythene Masking Covers

VCI film masking covers are manufactured from polythene film impregnated with a VCI anti-rust additive (Volatile Corrosion Inhibitor). VCI plastic covers are a clean, simple and cost effective way to protect against rust. For more details see www.haverplastics.co.uk.

For any more information on protecting metals from corrosion please contact us. We are the UK's leading supplier of anti-corrosion packaging and our Technical Sales staff will be able to walk you through the process of how to pack, review and validate the effectiveness of the VCI masking covers and other anti-rust packaging you are using.

VCI Efficacy Test – testing for effective anti-corrosion protection:			
Film:	VCI film	Test method:	Jar test
Test period:	2 weeks	Temperature Cycle:	1 cycle consists of 6 hours at 40 ° C and 6 hours at 10 ° C.
Testing of:	Anti-corrosion properties	Duration:	24 hours equilibration & 10 days on test (2 cycles per day)
Test Metals:	50mm x 70mm x1mm Mild Steel; 50mm x 70mm x 3mm Copper; 50mm x 70mm x 3mm Aluminium; 50mm x 70mm x 3mm Galvanised Steel		
Capability test for VCI:	Tests the capability of VCI packaging to protect a piece of metal from rust when the VCI packaging is placed in close proximity to the metal in an enclosed space		
Capability test for contact:	Tests the capability of VCI packaging to protect a piece of metal from rust when the VCI packaging is placed in contact with the metal in an enclosed space		

Test Results:

Where Excellent (0 - 2%) Very Good (2 - 10%), Good (10 - 20%), Poor (20 - 50%) and Very Poor (50 – 100%)

	Nitrite	Mild steel		Copper		Aluminium		Galvanised steel	
		VCI	Contact	VCI	Contact	VCI	Contact	VCI	Contact
<i>Capability test:</i>									
Haver VCI	Negative	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Excellent
Control	n/a	Very Poor	Very Poor	Very Poor	Very Poor	Very Poor	Very Poor	Very Poor	Very Poor

(3) ANTI-STATIC POLYTHENE: Drum Covers

Anti-static Drum Covers are usually supplied in a pink-tint however they can be supplied as clear or black covers if requested. Antistatic polythene drum covers will not generate or carry a static charge and so are used to temporarily cover non-sensitive products entering an Electro-Static Protected Area. Antistatic additives do not affect the clarity or quality of the film. Anti-static film is electrostatic-free and is static dissipative. Under normal storage conditions the film will remain permanently antistatic. Performance specifications listed following.

- ✓ Meets Military Specification Mil-B-81705 D.
- ✓ Discharged from 5000V to 50V.
- ✓ Surface resistivity, according to ASTM Method D-257-66 is lower than 10" Ohm/cm.

<u>Electrical Properties</u>	<u>Method</u>	<u>Units</u>	<u>Typical Value</u>
Surface Resistance	EOS/ESD S11.11	Ohms	<1.0E+12
Static Decay	FTMS 101C/ Method 4046	Sec.	< 2

Our standard anti-static films have strengths as per the previous *Film Strengths Table* however thicker films are available on request.

(4) FOOD CONTACT APPROVED POLYTHENE: Drum Covers

Food Contact Drum, Masking Covers and Pallet Covers are manufactured from BRC/IOP Food Grade approved film. The film is converted into masking covers in a manufacturing unit which has a BRC/IOP Packaging and Packaging Materials accreditation application pending. The materials and manufacture comply with all EU, EFSA and FDA material and manufacturing regulations.

(5) HI-TEMPERATURE POLYTHENE: Masking Covers, Masking Bags

Hi-Temperature Masking Covers and Masking Caps are manufactured using hi-temperature materials. Supplied as clear masking bags with elastic tops. Our standard polythene covers will protect parts up to 120 °C. Our Hi-Temperature Masking Covers will protect parts from 120-190 °C.