Zerust® ICT®510-C Non-Ferrous Film

Zerust®/Excor® ICT®510-C VCI Non-ferrous Film provides cost-effective and versatile protection against corrosion damage for non-ferrous metals such as aluminum, copper, brass, bronze and galvanized steel in shipping and storage.

Benefits

- Effective corrosion protection and packaging combined in one step
- Metals are ready for use and assembly directly out of the packaging
- Available with ESD protection
- Provides safe* and effective Zerust® VCI protection.
- Recyclable

Application Type

- Storage
- Shipping
- Work in progress

Application Example

A Zerust® VCI Non-ferrous Film Bag protects a copper coil from corrosion during shipping and storage.

*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.
## Specifications

### Product Information

Zerust®/Excor® ICT®510-C Non-ferrous Film is a polyethylene product impregnated with vapor corrosion inhibitors.

### Protected Metal Types

Protects non-ferrous metals such as aluminum, copper, brass, bronze, and galvanized.

### Protection Life

Protects clean metals for years when used correctly and utilized within three years from receipt. Not intended for outdoor use.

### Storage

Store in original packaging away from direct sunlight in conditions below 85°F (30°C) and 50% RH for up to 3 years from the date of shipment.

### Availability

Zerust®/Excor® ICT®510-C Film is available upon request and also offers custom additive options such as UV and Anti Static. Contact a Zerust® account manager for pricing and availability.

### Size Range (width):

- Bags & Tubing: 2” - 125” (flat)
- 2” - 150” (gusset)
- Sheeting: 2” - 26’

### Recyclable

Dispose of in accordance with local, national and international regulations. Check on options for recycling and incineration.

### Safety

- 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.
- Zerust® VCI chemistry is safe for sensitive electronics. No galvanic effects, residues or changes in the properties of metals. The protective molecules dissipate upon opening of package.

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### Property

<table>
<thead>
<tr>
<th>Property</th>
<th>Direction (Machine or Transverse)</th>
<th>Zerust® ICT®510-C Film*</th>
<th>ASTM Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film Thickness</td>
<td>-</td>
<td>4 mil (102 µm)</td>
<td>D-6988</td>
</tr>
<tr>
<td>Dart Impact Resistance</td>
<td>-</td>
<td>300 g</td>
<td>D-1709</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>MD</td>
<td>0.60 lb-f (2.7 N)</td>
<td>D-1938</td>
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<tr>
<td></td>
<td>TD</td>
<td>0.65 lb-f (2.9 N)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td>MD</td>
<td>1905 psi (13.1 MPa)</td>
<td>D-882</td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>1538 psi (10.6 MPa)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at Break</td>
<td>MD</td>
<td>3045 psi (21.0 MPa)</td>
<td>D-882</td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>2917 psi (20.1 MPa)</td>
<td></td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>MD</td>
<td>560%</td>
<td>D-882</td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>610%</td>
<td></td>
</tr>
<tr>
<td>Breaking Factor</td>
<td>MD</td>
<td>11.0 lb-f/in (1926 N/m)</td>
<td>D-882</td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>11.5 lb-f/in (1960 N/m)</td>
<td></td>
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<tr>
<td>Water Vapor Transmission Rate @78°F (26°C), 90% RH</td>
<td>-</td>
<td>0.06 g/(100 in²/day)</td>
<td>F-1249</td>
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<tr>
<td>Vapor Inhibiting Ability (VIA)</td>
<td>-</td>
<td>Pass</td>
<td>NACE TM0208</td>
</tr>
</tbody>
</table>

* Typical values, not meant to be a specification.

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