



# LS582

**Description:** PLOWELD Black, soft, chlorobutyl, with tie gum, for general purpose chemical resistance. **Not recommended for NaOCl (Bleach) service.** Exhaust Steam, Pressure, or Hot Water Cure. Complies with FDA.

**Durometer of Face Material:** Shore A Scale.

**Pressure Cure:** 55 to 65

**Atmospheric Cure:** 55 to 65

**Available Gauges:** 1/8", 3/16", 1/4"; 4 mm, 5mm, & 6mm.

**Adhesive System:**

**Adhesives:** ENDURABOND® 1\*2\*3 SYSTEM

1st coat on metal:	Primer #1
2nd coat on metal:	Intermediate #2
3rd coat on metal:	Tack #3
On the rubber:	Tack #3

**Skive:** Closed

**Cure Methods and Times:**

<p><b>Autoclave:</b> 2 hours @ 275°F (135°C) For vacuum service minimum of 6 hours @ 275°F</p>
<p><b>Internal Pressure:</b> Non Vacuum Tank 8 to 10 hours @ 260°F (127°C) Vacuum Service: 42 to 45 hours @ 260°F or 48 to 52 hours @ 250°F or 56 to 60 hours @ 240F. For insulated vessels : 4 hours at 260°F (127°C)</p>
<p><b>Atmospheric:</b> 2 Step process Step 1 – 6 hours from Ambient to 180°F (71°C) Step 2 – 24 hours @ 180°F (82°C) or 20 hours @ 200°F (94°C) Atmospheric curing not recommended for vacuum service.</p>

**Note:** Cure times may require adjustment to compensate for heavy metal thickness, low exterior temperatures or other unusual factors. See Section 14 – Curing Instructions.

**Repairs:** Repair with original lining, LS581, or C623BC. See Section 16 – Repair Procedures.

**Storage Life:**

From 32°F (0°C) to 50°F (10°C)	180 days
From 51°F (13°C) to 65°F (19°C)	90 days
From 66°F (21°C) to 75°F (23°C)	60 days
From 75 ° F (23°C) to 85 ° F (30°C)	30 days
Do not exceed 90°F (32°C) prior to use.	Cold storage

### Typical Physical Properties

Tensile Strength – PSI	ASTM D412	1000
% Elongation at break	ASTM D412	550
Durometer	ASTM D2240	55A
Specific Gravity	ASTM D927	1.41
Adhesion to Metal	ASTM D429	30 Lbs.

*Application methods shall conform to BLAIR Rubber Company instructions contained in the Engineering & Applicator manual.. Deviations from the specifications must be approved by BLAIR Rubber Company.*

**Notes:** Always apply plastic side down against the substrate.

This lining is also available in the following versions:  
Without tie gum – uses the same adhesive system  
With Tacky Back® - does not require tack #3 on the rubber.

This lining is very easy to apply and is commonly used for phosphoric acid, dilute sulfuric acid, brine solutions and locations that require ozone and oxidation resistance.

### Applicator Notes:

1. For Hot Water Cure consult with Blair Rubber Company's technical department. When using this method a qualified steel structural design engineer must be consulted.
2. For vacuum vessel curing instructions contact Blair Rubber Company's Technical Department.
3. A heated table that warms rubber to 120°F is best for application.
4. The temperature of the substrate must be greater than 60° F (15° C) prior to applying primer and rubber. Temperatures should not exceed 120° F (68° C).