

## TECHNICAL DATA SHEET

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# 2048

## NITRILE RUBBER LINING

October 18, 2011

**Polycorp 2048** is a black, 50A durometer nitrile rubber lining with tie gum for general purpose use when petroleum, aliphatic solvents, animal, vegetable and mineral oils are present. A-I-E Cure.

### Application Notes:

- **Skive** – Close
- **Repair** – Same
- **Cured Durometer** – Shore A Durometer of top surface: 50 ± 5.
- A heated table to warm the rubber to 110–120°F (43°C) is recommended
- **Spark Test:** Refer to Section 13 of the Application Manual

### Adhesive Notes:

See Section 9 of the Polycorp Rubber Lining Application Manual for specific cementing / adhesion notes.

For proper adhesion, temperatures must be over 60°F (15°C) and must not exceed 120°F (49°C).

Use adhesives in well ventilated area and always consult the material safety data sheet for specific precautions.

<u>Coat</u>	<u>Polycorp Adhesive</u>	<u>Approved Equivalent</u>
1 <sup>st</sup> Coat on Metal	C-100 Primer	Chemlok 205
2 <sup>nd</sup> Coat on Metal	C-200 Intermediate	Chemlok 220
3 <sup>rd</sup> Coat on Metal	021052 Tack	021052 Tack
4 <sup>th</sup> Coat on Lining	021052 Tack	021052 Tack

For distributors of Chemlok adhesives, see Section 9 of the Application Manual

### Curing:

Cure time adjustments may be required to compensate for specific conditions. See Section 11 of the Application Manual for detailed instructions.

**Autoclave Method – Up to 1/4” thickness:**  
2 hours at 275°F/135°C (30psi).

**Internal Steam Method – Up to 1/4” thickness:**  
6 hours @ 260°F/127°C (22 psi).

**Atmospheric Steam Method – Up to 1/4” thickness:** Slow rise to 212°F/100°C, hold for minimum 24 hours @ 212°F/100°C.

### Storage:

Store in a cool, dry area.

### Shelf Life:

Stored below 50°F (10°C)	180 days
Stored between 51 and 70°F (21°C)	60 days
Stored between 71 and 90°F	30 days
Do not store above 90°F (32°C)	

Storage, handling and application methods must conform to the Polycorp Rubber Lining Application Manual

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### Typical Properties:

<u>Property</u>	<u>Value</u>	<u>ASTM Test Method</u>
Hardness (Face)	50 A $\pm$ 5	D2240
Tensile Strength (min, psi)	1500	D412
Elongation at Break (min, %)	500	D412
Specific Gravity	1.19	D927
Adhesion to Metal (min, lbs)	25	D429
Maximum Operating Temperature for Optimum Service Life	115°C/239°F	N/A

All physical property values developed and measured using a press-cured sample sheet prepared in accordance with ASTM D3182.

### PRECAUTIONS:

- Calendered stock typically has nerve. Warm stock to 100°F/38°C to 120°F/49°C to preshrink the lining before cutting sheet to size.
- Rubber should be crowded rather than stretched during application.
- Nitrile rubber is susceptible to weather checking. Do not expose rubber lining to sunlight or ozone.