

TECHNICAL DATA SHEET

3049

NATURAL RUBBER BLEND LINING (MOR)

January 21, 2013

Polycorp 3049 is a black, 55A durometer natural rubber blend lining for general purpose use when abrasion and moderate oil resistance is required. A-I-E Cure.

Application Notes:

- **Skive** – Closed overlap or butt seam with a cap strip (3" wide x 1/8" thick) of 3050
- **Repair** – Same
- **Cured Durometer** – Shore A Durometer of top surface: 55 ± 5.
- A heated table to warm the rubber to 110–120°F (43°C) is recommended
- Pre-shrink rubber before cutting sheet
- **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 st Coat on Metal	C-90 Primer	Chemlok 289
2 nd Coat on Metal	C-91 Intermediate	Chemlok 290
3 rd Coat on Metal	C-202S Tack	Chemlok 286
4 th Coat on Lining	C-202S Tack	Chemlok 286

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:
8 hours @ 260°F/127°C (22 psi).

Atmospheric Steam Method – Up to 1/2" thickness: Slow rise to 212°F/100°C, hold for minimum 24 hours @ 212°F/100°C.
3/8" to 1": Minimum of 30 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

TECHNICAL DATA SHEET

3049 Page 2 of 2

Typical Properties:

<u>Property</u>	<u>Value</u>	<u>ASTM Test Method</u>
Hardness (Face)	55 A ± 5	D2240
Tensile Strength (min, psi)	2500	D412
Elongation at Break (min, %)	450	D412
Specific Gravity	1.20	D927
Adhesion to Metal (min, lbs)	25	D429
Maximum Operating Temperature for Optimum Service Life	71°C/160°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.
- Rubber is susceptible to weather checking. Do not expose rubber lining to sunlight, oxygen or ozone.