



# **TECHNICAL DATA SHEET**

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# SEMI-HARD NATURAL RUBBER

July 25, 2011

**Polycorp 1048** A general purpose black 80 A / 30 D semi-hard lining with or without natural rubber tie gum. Excellent chemical and temperature resistance and superior performance in water treatment equipment. FDA compliant as per 21CFR177.2600.

## **Application Notes:**

- Skive use closed skive construction
- Repair Same or 1038
- Cured Durometer Shore A Durometer of top surface: 80 ± 5. Shore D Durometer of top surface: 30 ± 5.
- 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>	Polycorp Adhesive	Approved Equivalent
1 <sup>st</sup> Coat on	C-90	Chemlok 289
Metal	Primer	
2 <sup>nd</sup> Coat on	C-91	Chemlok 290
Metal	Intermediate	
3 <sup>rd</sup> Coat on	C-202S	Chemlok 286
Metal	Tack	
4 <sup>th</sup> Coat on	C-202S	Chemlok 286
lining	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 – 3/16" & 1/4" thickness:

Slow rise to 250°F/121°C (15 psi). Hold 2 1/2 hours at 250°F/121°C (15 psi). Cool down under pressure.

Internal Steam Method - 3/16" &  $\frac{1}{4}$ " thickness: Slow rise to  $250^{\circ}$ F/121°C (15 psi). Hold 5 hours at  $250^{\circ}$ F/121°C (15 psi). Cool down under pressure.

Atmospheric Steam Method - Up to 1/4" thickness: Minimum 24 hours at 212°F/100°C. Lower durometer readings may result with this type cure.

#### Storage:

Store in a cool, dry area.

Shelf Life:

Stored below 50°F (10°C)	180 days	
Stored between 51 and 70°F	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:**

Property	Value	ASTM Test Method
Hardness (Face)	80 A/ 30D ± 5	D2240
Tensile Strength (min, psi)	1500	D412
Elongation at Break (min,%)	60	D412
Specific Gravity	1.30	D927
Abrasion Resistance, volume loss	605	D5963
(mm <sup>3</sup> )		
Adhesion to Metal (min, lbs)	25	D429
Maximum Operating Temperature for Optimum Service Life	85°C/ 185°F	N/A

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

Abrasion resistance value provides an abrasion resistance comparison guide for Polycorp rubber lining products only.

## **PRECAUTIONS:**

- This is a hard rubber compound. Overcure will cause brittleness.
- Do not use in transport equipment or tanks to be installed outside.
- This lining may not be suitable for equipment that may be exposed to extremely low temperatures. If temperatures will be below 32°F/0°C, contact Polycorp with all the service conditions for a specific recommendation.
- Cool down to 120°F/49°C before releasing pressure during pressure cure.
- Do not ship lined tank below 20 °F