

TECHNICAL DATA SHEET

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SEMI-HARD FLEXIBLE RUBBER

October 1, 2010

Polycorp 1042 White 85A durometer semi-hard ebonite blend of natural rubber and synthetic material with natural rubber tie gum offering maximum resistance to chemical and temperature. A-I-E Cure. FDA compliant as per 21CFR177.2600

Application Notes:

- **Skive** – use closed skive construction
- **Repair** – Same
- **Cured Durometer:** Shore A Durometer of top surface: 85 ± 10. Shore D Durometer of top surface: 35 ± 10.
- 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 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-204S Tack	Chemlok 286
4 th Coat on lining	C-204S 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. All recommendations below are for lining thicknesses up to 1/4".

Autoclave Method – 3/16" & 1/4" thickness:

2 1/2 hours @ 250°F/121°C (15 psi). Cool down under pressure.

Internal Steam Method – 3/16" & 1/4" thickness:

5 hours @ 250°F/121°C (15 psi). Cool down under pressure.

Atmospheric Steam Method – Up to 1/4" thickness:

Minimum 24 hours @ 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)	85A/ 35D ± 10	D2240
Tensile Strength (min, psi)	1000	D412
Elongation at Break (min,%)	100	D412
Specific Gravity	1.26	D927
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.

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
- Calendered stock typically shrinks. Warm stock to 100°F/38°C to 120°F/49°C before applying.
- Crowd rather than stretch during application.
- Extend rubber minimum of two (2) inches past flange face to allow for shrinkage during cure. Trim flanges and cut bolt holes after cure.
- Cool down under air pressure to 120°F/49°C before releasing pressure when using a pressure cure.