

1099

SOFT NATURAL RUBBER LINING

March 2015

Polycorp 1099 is a tan, **strained**, 35A durometer smoked sheet natural rubber pure gum lining with sticky back tie-gum. The lining of choice for HCL applications including large storage tanks, railcars and tank trucks. Provides excellent chemical, abrasion and tear resistance. It is FDA compliant as per 21CFR177.2600. Operating temperature range is from - 40°F (-40°C) to 160°F (71°C).

APPLICATION NOTES:

- **Skive** – use open skive construction
- **Repair** – Same or 2042 chemical cure. Refer to section 11 of the application manual.
- **Cured Durometer** – Shore A Durometer of top surface: 35 ± 5.
- **Spark Test** – Refer to section 13 of the Application Manual

ADHESIVE NOTES:

See Section 6 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.

CURING:

Cure time adjustments may be required to compensate for specific conditions. See Section 10 of the Application Manual for detailed instructions.

Autoclave Method – Up to 1/4” thickness:

1½ hour @ 260°F/121°C (20 psi).
 ½” thickness: 2 hours @ 260°F (20 psi)

Internal Steam Method – Up to 1/4” thickness:

3 hours @ 260°F (20 psi) or 6 hours @ 240°F (10 psi)

Exhaust (Atmospheric) Steam Method – Up to

1/4” thickness: Minimum 24 hours @ 212°F/100°C.

Coat	Polycorp Adhesive	Approved Equivalent
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-210S Tack	Chemlok 286
4 th Coat on lining	Not required with sticky back tiegum	Not required with sticky back tiegum
For overlap and cap strips	C210S Tan Tack	Chemlok 286

STORAGE:

Store in a cool and dry area.

Shelf Life	
Stored below 50°F (10°C)	180 days
Stored between 51 and 70°F	90 days
Stored between 71 and 90°F	45 days
Do not store above 90°F (32°C)	

Depending on storage conditions it may be possible to use rubber linings beyond the recommended shelf life however additional testing must be completed. Please contact Polycorp for recommended test procedures. A sample of the rubber lining can also be sent back to Polycorp for verification.

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

TYPICAL PROPERTIES:

Property	Value	ASTM Test Method
Hardness (Face)	35 A ± 5	D2240
Tensile Strength (min, psi)	2500	D412
Elongation at Break (min, %)	500	D412
Specific Gravity	0.97	D297
Adhesion to Metal (min, lbs)	25	D429
Operating Temperature Range for Optimum Service Life	- 40°F (-40°C) to 160°F (71°C)	N/A

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