



TECHNICAL DATA SHEET

1053 Page 1 of 2

1053

GRAPHITIC SEMI-HARD NATURAL

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Polycorp 1053 is a Black 95 shore A / 55 shore D graphite semi-hard lining with soft natural rubber tie gum possessing outstanding resistance to wet chlorine, chlorinated brine and chlorine water solution. A-I-E Cure.

Application Notes:

- **Skive** use closed skive construction
- Repair Same
- Cured Durometer Shore D Durometer of top surface: 55 ± 10. Shore A Durometer of top surface: 95 ± 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.

Coat	Polycorp	Approved
	<u>Adhesive</u>	Equivalent
1st Coat on	C-90	Chemlok 289
Metal	Primer	
2 nd Coat on	C-91	Chemlok 290
Metal	Intermediate	
3 rd Coat on	C-202S	Chemlok 286
Metal	Tack	
4 th 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: 2 1/2 hours @ 260°F/127°C (20 psi). Cool down under pressure.

Internal Steam Method - 3/16" & 1/4" thickness: - 5 hours @ 267°F/131°C (25 psi). Cool down under pressure.

Atmospheric Steam Method - Up to 1/4" thickness: Minimum 30 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





TECHNICAL DATA SHEET

1053 Page 2 of 2

Typical Properties:

<u>Property</u>	<u>Value</u>	ASTM Test Method
Hardness (Face)	55 D ±10	D2240
Tensile Strength (min, psi)	2000	D412
Elongation at Break (min, %)	50%	D412
Specific Gravity	1.32	D927
Adhesion to Metal (min, lbs)	25	D429
Maximum Operating Temperature fro	85°C/ 185°F	N/A
Optimum Service Life		

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