

TECHNICAL DATA SHEET

1035

SEMI-HARD NATURAL RUBBER

October 1, 2009

Polycorp 1035 Black 55 shore D durometer general purpose field curing semi-hard natural rubber lining, "Superflexite B". Uses soft natural rubber tie gum. Excellent semi-hard lining with excellent chemical resistance at elevated temperature. A-I-E Cured.

Application Notes:

- **Skive** – use closed skive construction
- **Repair** – Same or 1038 chemical cure.
- **Cured Durometer** – Shore D Durometer of top surface: 55 ± 10.
- **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 – 3/16" & 1/4" thickness:

2 1/2 hours @ 260°F/127°C (20 psi)

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

5 hours @ 260°F/127°C (20 psi)

Atmospheric Steam Method – Up to 1/4"

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:

| <u>Property</u> | <u>Value</u> | <u>ASTM Test Method</u> |
|--|---------------|-------------------------|
| Hardness (Face) | 55 D \pm 10 | D2240 |
| Tensile Strength (min, psi) | 2500 | D412 |
| Elongation at Break (min, %) | 8 | D412 |
| Specific Gravity | 1.37 | 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