

Permabond® RS-3802 Black Natural Rubber has excellent physical properties, like tensile strength, abrasion resistance, and elongation. As well has good resistance to most inorganic chemicals, with the exception of strong oxidizing agents. RS-3802 is flexible and will expand and contract with thermal variations of the metal substrate. FDA Complaint per 21CFR177.2600.

PHYSICAL PROPERTIES

ASTM TEST	VALUE
Hardness (ASTM D2240)	40 +/- 5 Shore A
Tensile (ASTM D412)	3500 psi (min.)
Elongation (ASTM D412)	700% (min.)
Adhesion (ASTM D429)	30 LBS (min.)
Tear (Die C)	200 Lbs/Lin. In.
Service Temperature	180°F max. (82.22°C)
Specific Gravity	1.02

RESISTANCE TO

MATERIAL	VALUE
Abrasion, Sliding	Excellent
Abrasion, Impingement	Excellent
Acid (Diluted)	Good
Salt Solutions	Good to Excellent
Oxygenated Solvents	Good
Acid (Concentrated)	Fair
Animal & Vegetable Oils	Poor to Good
Oil & Gasoline	Poor

ATMOSPHERIC AGING

MATERIAL	VALUE
Moisture Resistance	Very Good
Compression Set	Good
Permeability	Fair

STANDARD ROLL SIZES

GAUGE	WIDTH	LENGTH	AREA
1/8" (3mm)	4' (1.22m)	131.25' (40m)	525ft ² (48.77m ²)
3/16" (4mm)	4' (1.22m)	91.75' (27.96m)	367ft ² (34.05m ²)
1/4" (6mm)	4' (1.22m)	62.25' (18.97m)	249ft ² (23.13m ²)
3/8" (9mm)	4' (1.22m)	49.25' (15.01m)	197ft ² (18.30m ²)
1/2" (12mm)	4' (1.22m)	32.75' (9.98m)	131ft ² (12.17m ²)

CURE METHOD UP TO 1/4" (6mm)

METHOD	TEMPERATURE
Pressure Cure (Autoclave)	1 Hr @ 265°F (129°C)
Internal Pressure	1 Hr Rise to 265°F (129°C) Hold @ 265°F (129°C) for 4 Hrs
*Atmospheric	24 Hrs @ 212°F (100°C)

*Ultimate Abrasion resistance requires minimum of 265°F (129°C) cure temperature

ADHESIVE SYSTEM

COAT	ADHESIVE
1st Coat (Primer)	Chemlok 289
2nd Coat (Intermediate)	Chemlok 290
3rd Coat (Tack)	Chemlok 286
4th Coat (Tack)	Chemlok 286

TYPICAL APPLICATIONS

- Piping
- Storage Vessels
- Thickeners/Clarifiers
- Chutes
- Flotation Cells

APPLICATION NOTES

1. Use application procedure for guidance.
2. Make repairs with original lining and follow the specified cure methods.
3. Curing times listed are guidelines only.
4. Keep rubber roll in the box until use and always off the ground and suspended.
5. Shelf Life: Stored below 50°F (10°C) = 180 days.
6. Contact your account representative for specific technical material and lining methodology recommendation.

Disclaimer: The above guidelines are based on general industry practices and not applicable to all installations. Application methods should comply with RubberSource application instructions. The data values use is an approximate value and may vary based on individual application methodology and local atmospheric conditions.