

Permabond® RS-5661 Black Semi-Hard Natural Rubber general purpose Semi-Hard rubber designed for excellent resistance to a wide range of solutions. Excellent for water treatment applications. It also has good resistance to most inorganic chemicals, with the exception of strong oxidizing agents. FDA compliant as per 21CFR177.2600.

PHYSICAL PROPERTIES

ASTM TEST	VALUE
Hardness (ASTM D2240)	80 +/- 5 Shore A
Tensile (ASTM D412)	1500 psi (min.)
Elongation (ASTM D412)	116% (min.)
Adhesion (ASTM D429)	30LBS (min.)
Tear (Die C)	116 Lbs/Lin. In.
Service Temperature	200°F max. (93.3°C)
Specific Gravity	1.29

RESISTANCE TO

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

ATMOSPHERIC AGING

MATERIAL	VALUE
Low Temperature Flexibility	Good
Moisture Resistance	Excellent
Compression Set	Good
Permeability	Poor

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)

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.

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

METHOD	TEMPERATURE
Pressure Cure (Autoclave)	2 Hr @ 250°F (121°C)
Internal Pressure	1 Hr Rise to 250°F (121°C) Hold @ 250°F (121°C) for 4 Hrs
Atmospheric	24 hrs @ 212°F (100°C)

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

- Storage Vessels
- Water Treatment Vessels

APPLICATION NOTES

1. Make repairs with original lining and follow the specified cure methods.
2. Use Closed Skive for joint construction.
3. Curing times listed are guidelines only.
4. Shelf Life: Stored below 50°F (10°C) = 180 days.
5. Pre-warm rubber on warm table approximately to 120°F (49°C) before use.
6. Contact your account representative for specific technical material and lining methodology recommendation.