

**Permabond® RS-9005 Black Neoprene® (CR) Rubber** imparts better flame resistance, weather ability, and ozone resistance experienced with diene rubbers. The swelling resistance of the RS-9005 to mineral, vegetable, and animal oils is also better than the non polar diene-based rubbers. It has good resistance to paraffinic and naphthenic oils of high molecular weight.

### PHYSICAL PROPERTIES

ASTM TEST	VALUE
Hardness (ASTM D2240)	60 +/- 5 Shore A
Tensile (ASTM D412)	3000 psi (min.)
Elongation (ASTM D412)	695% (min.)
Adhesion (ASTM D429)	30LBS (min.)
Tear (Die C)	260 Lbs/Lin. In.
Service Temperature	220°F max. (104.44°C)
Specific Gravity	1.37

### RESISTANCE TO

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

### ATMOSPHERIC AGING

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

### STANDARD ROLL SIZES

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

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

METHOD	TEMPERATURE
Pressure Cure (Autoclave)	2 Hr @ 250°F (121.1°C)
Internal Pressure	1 Hr Rise to 250°F (121°C) Hold @ 250°F (121°C) for 8 Hrs
Atmospheric	24 Hrs @ 212°F (100°C)

### ADHESIVE SYSTEM

COAT	ADHESIVE
1st Coat (Primer)	Chemlok 205
2nd Coat (Intermediate)	Chemlok 252
3rd Coat (Tack)	RS-CR184
4th Coat (Tack)	RS-CR184

### TYPICAL APPLICATIONS

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

### 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.

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.