

Permabond® RS-0545 Black Lead Cure Neoprene® (CR) Rubber The lead content imparts better flame resistance, weather ability and ozone resistance than a typical CR rubber formulation. The permeation resistance of the mineral, vegetable, and animal oils is also better than all other CR linings. RS-0545 has good resistance to paraffinic and naphthenic oils of higher molecular weight but swell extensively in aromatic oils of low molecular weight. With the lead curing package and the addition of higher levels of filler loading we have improved the crosslink giving it exceptional resistance to oils, abrasion, and swelling in aqueous solutions and slurries.

PHYSICAL PROPERTIES

ASTM TEST	VALUE
Hardness (ASTM D2240)	55 +/- 5 Shore A
Tensile (ASTM D412)	2500 psi (min.)
Elongation (ASTM D412)	550% (min.)
Adhesion (ASTM D429)	25LBS (min.)
Tear (Die C)	229 Lbs/Lin. In.
Service Temperature	220°F max. (104.44°C)
Specific Gravity	1.43

RESISTANCE TO

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

ATMOSPHERIC AGING

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

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
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 220
3rd Coat (Tack)	RS-CR184
4th Coat (Tack)	RS-CR184

TYPICAL APPLICATIONS

- Piping
- Storage Vessels
- Thickeners/Clarifiers
- Chutes

APPLICATION NOTES

1. Make repairs with original lining and follow the specified cure methods.
2. Use Open Skive for joint construction.
3. Curing times listed are guidelines only.
4. Storage: Store in cool and dry area.
5. Shelf Life: Stored below 50°F (10°C) = 180 days.
6. Contact your account representative for specific technical material and lining methodology recommendation.