

Permobond® RS-5705 Nitrile Rubber is a polar-type lining used where exposure to aliphatic hydrocarbons is a service condition. It exhibits good resistance to swelling when immersed in liquids that are non – or weakly polar, such as gasoline, grease, mineral oil, and animal or vegetable fats and oils. Comes with a bonding layer for added adhesion.

PHYSICAL PROPERTIES

ASTM TEST	VALUE
Hardness (ASTM D2240)	60 +/- 5 Shore A
Tensile (ASTM D412)	2500 psi (min.)
Elongation (ASTM D412)	500% (min.)
Adhesion (ASTM D429)	25LBS (min.)
Tear (Die C)	450 Lbs/Lin. In.
Service Temperature	220°F max. (104.4°C)
Specific Gravity	1.39

RESISTANCE TO

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

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 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 @ 275°F (135°C)
Internal Pressure	1 Hr Rise to 275°F (135°C) Hold @ 275°F (135°C) for 4 Hrs
Atmospheric	Not Recommended

ADHESIVE SYSTEM

COAT	ADHESIVE
1st Coat (Primer)	Chemlok 205
2nd Coat (Intermediate)	Chemlok 220
3rd Coat (Tack)	RS-CR184 or RS-3500
4th Coat (Tack)	RS-CR184 or RS-3500

TYPICAL APPLICATIONS

- Storage Vessels
- 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.