



# Rubber Source Inc.

Products Engineered To Exceed Requirements

## Uniroyal Permobond® 5705 Material Specification Sheet

Uniroyal Permobond 5705 (Nitrile) 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.

### ASTM /Test Requirements

Hardness (ASTM D2240)	55 – 65 Shore A
Tensile (ASTM D412)	2500 psi min.
Elongation (ASTM D412)	500% min.
Tear (Die C)	450 Lb/Lin. In.
Service Temperature	220°F max.
Specific Gravity	1.39

**Available Gauges:** 1/8", 3/16", 1/4", 3/8", 1/2"

### Resistance to:

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

**Seams:** Open-skive seam construction

### Cure for up to 1/4" Thickness:

Pressure Cure (Autoclave)	2 Hrs @ 250°F
Atmospheric Cure	1 <sup>st</sup> -6 hrs. from Room Temp to 160° 2 <sup>nd</sup> - 24 hrs. @ 180°F

### Atmospheric Aging

Atmospheric Aging	Fair
Low Temperature Flexibility	Good
Compression Set	Good
Permeability	Fair

**Repairs:** Make repairs with original lining material

For Additional Material Recommendations  
Please Contact Rubber Source at  
1-877-660-4440

### Typical Uses:

- Storage Vessels

[www.rubbersource.ca](http://www.rubbersource.ca)