



Rubber Source Inc.

Products Engineered To Exceed Requirements

Uniroyal Permobond® 5143 Material Specification Sheet

Uniroyal Permobond 5143 (Black Natural) has excellent physical properties, like tensile strength, abrasion resistance, and elongation. As well has good resistance to most inorganic chemicals, with the exception of strong oxidizing agents. 5143 is flexible and will expand and contract with thermal variations of the metal substrate.

ASTM /Test Requirements

| | |
|------------------------|-----------------|
| Hardness (ASTM D2240) | 45 – 55 Shore A |
| Tensile (ASTM D412) | 3000 psi min. |
| Elongation (ASTM D412) | 450% min. |
| Tear (Die C) | 250 Lb/Lin. In. |
| Service Temperature | 180°F max. |
| Specific Gravity | 1.1 |

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

Adhesive System:

| | |
|---|-------------|
| 1 st Coat on Metal | Chemlok 289 |
| 2 nd Coat on Metal | Chemlok 290 |
| 3 rd Coat on Metal | Chemlok 286 |
| 4 th Coat on Metal or Rubber | Chemlok 286 |

Resistance to:

| | |
|-------------------------|-----------|
| Abrasion, Sliding | Excellent |
| Abrasion, Impingement | Excellent |
| Acid (Dilute) | Good |
| Salt Solutions | Good |
| Oxygenated Solvents | Good |
| Acid (Concentrated) | Fair |
| Animal & Vegetable Oils | Poor |
| Oil & Gasoline | Poor |

Seams: Open-skive seam construction

Cure for up to 1/4" Thickness:

| | |
|---------------------------|---|
| Pressure Cure (Autoclave) | 2 Hrs @ 250°F |
| Internal Steam | 1 Hr Rise to 250°F Hold 250°F 2 Hrs. |
| Atmospheric | 24 Hrs @ 212°F |

Atmospheric Aging

| | |
|-----------------------------|-----------|
| Low Temperature Flexibility | Excellent |
| Moisture Resistance | Excellent |
| 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:

- Piping & Chutes
- Storage Vessels
- Thickeners & Clarifiers

www.rubbersource.ca