## physical properties:

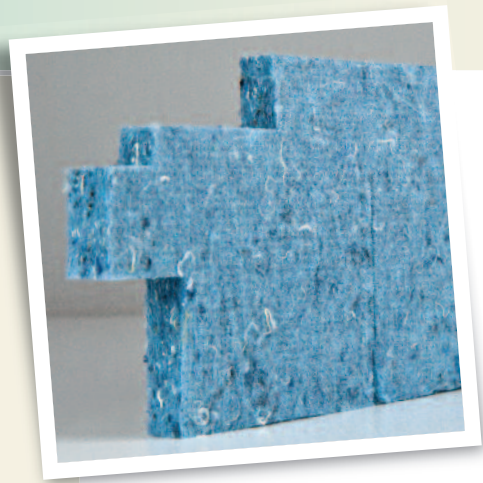| | PERFORMANCE | TEST METHOD |
|---|---|---|
| Surface Burning Characteristics (Fire Hazard Classification) | Flame Spread: 5 (Class 1) | ASTM E 84 |
| | Smoke Developed: 35 (Class 1) | UL 723 |
| Corrosion Resistance | Pass | ASTM C 739 |
| Fungi Resistance | Pass – No Growth | ASTM C 739 |
| Bacteria Resistance | Pass – No Growth | ASTM C 739 |
| Moisture Absorption | Pass – Less than 15% | ASTM C 739 |
| Fire Test of Building Materials | Pass – 1 Hour Rating | ASTM E 119 UL 263 |

## thermal technical data:

| THICKNESS | R-VALUE* |
|---|---|
| 2. INCHES  (50 mm) | 8 |
| 3.5  INCHES  (89 mm) | 13 |
| 5.5  INCHES  (139 mm) | 19 |

Tested in accordance with ASTM C 518 at mean temperature of 75° F.
* The higher the R-Value, the greater the insulating power.

## adhesive option:

Natural Fiber Appliance Insulation can be laminated with a Pressure Sensitive Adhesive (PSA) to one side of the insulation. The PSA has a clear plastic release liner that can be easily removed so the insulation can be securely adhered to most any surface eliminating the need for fasteners and spray adhesives.

## acoustical performance – NRC:

| THICKNESS | | ABSORPTION COEFFICIENTS @ OCTAVE BAND FREQUENCIES (Hz) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| inches | density (pcf) | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
| 3/8 | 6 | .12 | .10 | .23 | .56 | .81 | .89 | .45 |
| 1 | 1.5 | .07 | .33 | .72 | .99 | .93 | .96 | .75 |
| 1 | 3 | .08 | .31 | .79 | 1.01 | 1.0 | .99 | .80 |
| 1 | 6 | .07 | .30 | .86 | 1.1 | 1.05 | 1.03 | .85 |
| 2 | 3 | .35 | .94 | 1.32 | 1.22 | 1.06 | 1.03 | 1.15 |
| 3.5 | 1.2 | .95 | 1.3 | 1.19 | 1.08 | 1.02 | 1.0 | 1.15 |
| 5.5 | 1.2 | .97 | 1.37 | 1.23 | 1.05 | 1.0 | 1.01 | 1.15 |

Sound Absorption was tested in accordance with ASTM C 423 using a Type A mounting per ASTM E 795



**Bonded Logic® has in-house die cutting capabilities to manufacture many custom-fit OEM insulation components**

## Natural Fiber Appliance Insulation

— **Excellent Noise Absorption**
— **Strong Thermal Protection**
— **No Itch or Skin Irritation**
— **Resists Microbial Growth**
— **Class-A Fire Rating**

Bonded Logic Natural Fiber Appliance Insulation is made from post consumer recycled denim that is thermally bonded to create a high performance insulation.

Natural Fiber Appliance Insulation offers superior sound absorption and thermal performance. Natural Fiber Appliance Insulation is treated with a non-toxic solution that actively inhibits the growth of mold, mildew, bacteria and fungi. This same fiber treatment also acts as an excellent fire retardant, giving Natural Fiber Appliance Insulation a Class-A Fire Rating.

**USES:** Natural Fiber Appliance Insulation is used primarily as an acoustical and thermal treatment for appliances to absorb unwanted noise from multiple sources and reduce heat gain or loss.

This insulation can be used in, but is not limited to, large appliances like refrigerators, dishwashers and clothes washers/dryers