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# Insulating Glass-Sealant PIB-8HSNB

## Gray High Speed, High Strength Primary Sealant

## Description

**ADCOTHERM® PIB-8HSNB** is a gray polyisobutylene based sealant that exhibits excellent long-term stability and remains permanently flexible, even at low temperatures. Like all **ADCOTHERM® PIB** sealants, **ADCOTHERM® PIB-8HSNB** exhibits low argon permeability and inherently low moisture vapor transmission along with excellent adhesion to aluminum, stainless steel and tin-plated steel spacer substrates.

VERTICAL
Insulating Glass-Sealant PIB

## Basic Use

**ADCOTHERM® PIB-8HSNB** is specifically formulated to be used as a primary sealant in insulating glass units which are produced on high speed vertical application equipment. **ADCOTHERM® PIB-8HSNB** offers high application rates without sacrificing strength performance.

**PIB-8HSNB** has very low moisture vapor transmission rates (MVTR) and gas permeability rates. Properly constructed dual-seal units incorporating **PIB-8HSNB** will retain argon insulating gas and maintain a dry interior unit airspace for decades. Insulating glass units produced with **ADCOTHERM® PIB-8HSNB** routinely pass ASTM E2188, E2189, E2190 (HIGS) standards.

**ADCOTHERM® PIB-8HSNB** is designed to run well on high-volume, fully automated application equipment as well as manual butyl extruders. PIB-8HSNB may be used with most commercially available urethane, silicone, polysulfide, or butyl hot melt insulating glass secondary sealants.

## Health & Safety

Prior to working with this or any product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

| Features | Benefits |
|---|---|
| Easily dispensed | Dispensing viscosity will support production rates on high-volume automated extruders |
| Low moisture vapor transmission rate (MVTR) | Increased unit life expectancy |
| Excellent resistance to weathering | Does not degrade upon exposure to environmental conditions |
| Low gas permeability | Increased argon gas retention beyond industry standards |
| Ultra low volatile content | No chemical fogging. No discoloration of low-e coatings |
| Dedicated gray PIB manufacturing line | No black streaking in product |

## Packaging

**Insulating Glass-Sealant PIB-8HSNB** Gray is available in the following standard packages:

- 14lb slug
- 55gal drum

## Storage and Shelf Life

Store material in original unopened packaging at temperatures between 4°C to 38°C (40°F to 100°F). Shelf life is 24 months when stored as recommended.

## Limitations

- **Insulating Glass-Sealant PIB-8HSNB** is not intended for use as a structural sealant.
- **Insulating Glass-Sealant PIB-8HSNB** is not resistant to attack by solvents, oils, and plasticizers. When constructing IG with silicone secondary sealants, care must be taken to insure that the glazing environment (including setting blocks, compression gaskets, glazing sealants, and weatherproofing sealants) is free from solvents, oils and plasticizers. These chemicals can migrate through silicone secondary sealants and attack the primary sealant resulting in premature IG unit failure.
- The surfaces to be bonded must be dry, clean and free from dust and grease. Glass surfaces should be thoroughly cleaned by hand or machine with non-film forming, low residue detergent and rinsed thoroughly with clean hot water.

## Glazing Compatibility

It is recommended that glazing materials be tested for compatibility and that all units be glazed in accordance with GANA (Glass Association of North America) and IGMA (Insulating Glass Manufacturers Alliance) recommendations. Contact with any solvent, oil, or plasticizer-containing glazing materials should be avoided.

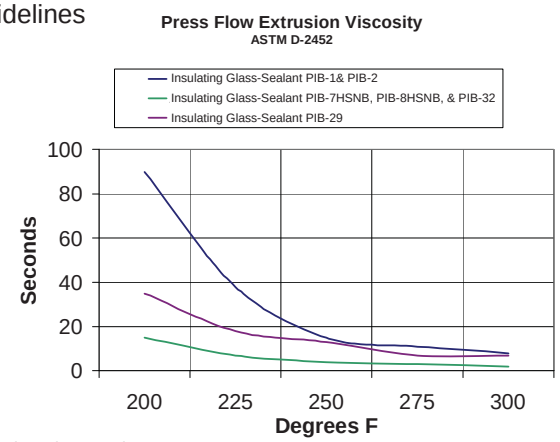
## Performance Standards

Insulating glass units incorporating **Insulating Glass-Sealant PIB-8HSNB** routinely meet the following specifications:

- ASTM E 774
- ASTM E 2188, E2189, E2190 (HIGS)
- CGSB 12.8
- EN 1279 (Part 1-3)

## Application Instruction

See **Insulating Glass-Sealant PIB** Application Guidelines




| Technical Data | | |
|---|---|---|
| **Property** | **Typical Value** | **Test Method** |
| Moisture Vapor Transmission | 0.09 g/m²/24 hr | ASTM F1249 2mm thickness |
| Argon Diffusion | 0.02 L/m²/24h/ 760mm | ASTM D3985 3mm thickness |
| Press Flow Extrusion Viscosity | 7 seconds | ASTM D2452 110°C (230°F), 8.6mm orifice |
| Service Temperature | -45°C to 80°C (-50°F to 176°F) | |
| **Physical Properties** | | |
| Cone Penetration | 50 dmm | ASTM D217, 150g added load |
| Solids Content | 100% | |
| Specific Gravity | 1.06 | ASTM D71 |
| Weight per gallon | 8.8 lb | |
| **Application Properties** | | |
| Suggested Application Temperature | 100°C to 130°C (212°F to 265°F) | |
| **NOTE:** The foregoing information is published as general information only. The listed properties and performance characteristics are approximate values and are not to be interpreted as manufacturing specifications. | | |

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