

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.



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.

Insulating Glass-Sealant PIB-8HSNB 20140801

CAUTION: All statements and technical information in this document are based on tests or data that Royal believes is reliable. However, Royal does not warrant or guarantee the accuracy or completeness of this information. The user has sole knowledge and control of factors that can affect the performance of Royal's products in the user's intended application. It is the user's responsibility to conduct tests to determine the compatibility of Royal's product with the design, structure, and materials of the user's end product and the suitability of Royal's product for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.



Features

Easily dispensed

Low moisture vapor transmission rate (MVTR)

Excellent resistance to weathering

Low gas permeability

Ultra low volatile content

Dedicated gray PIB manufacturing line

Benefits

Dispensing viscosity will support production rates on high-volume automated extruders

Increased unit life expectancy

Does not degrade upon exposure to environmental conditions

Increased argon gas retention beyond industry standards

No chemical fogging. No discoloration of low-e coatings

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.

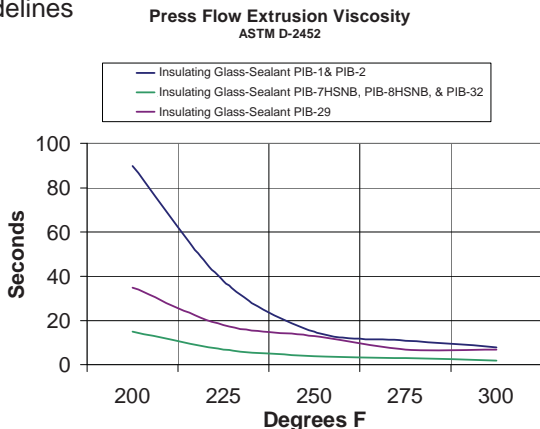
Performance Standards

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



Insulating Glass-Sealant PIB-8HSNB 20140801

Page. 2/2

WARRANTY: Royal warrants its products to conform to Royal's specifications at the time of sale when tested according to Royal standards. If a product is proven to be defective when tested according to Royal standards, Royal will, at its option, refund the purchase price or replace or repair the defective product. THIS LIMITED WARRANTY IS THE BUYERS SOLE AND EXCLUSIVE REMEDY AGAINST ROYAL AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall Royal be liable for any special, incidental, consequential, or punitive damages arising out of any claims whether based on negligence, contract, warranty, strict liability or otherwise.



Technical Data		
Property	Typical Value	Test Method
Moisture Vapor Transmission	0.09 g/m ² /24 hr	ASTM F1249 2mm thickness
Argon Diffusion	0.02 L/m ² /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.		

IGMA MEMBER
INSULATING GLASS MANUFACTURERS ALLIANCE



ISO 9001
REGISTERED
TS 16949