

Insulating Glass-Sealant PIB-32

Gray Primary Seal for Commercial IG

Description

ADCOTHERM® PIB-32 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-32 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

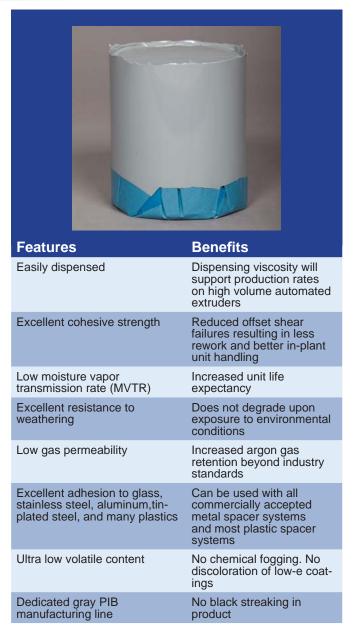
ADCOTHERM® PIB-32 is specifically formulated to be used as a primary sealant in insulating glass units for commercial construction. **PIB-32** is compounded with high levels of UV stabilizing agents to provide maximum protection in exposed applications such as direct glazing.

ADCOTHERM® PIB-32 has very low moisture vapor transmission rates (MVTR) and gas permeability rates. Properly constructed dual-seal units incorporating **ADCOTHERM® PIB-32** will retain argon insulating gas and maintain a dry interior unit airspace for decades. Insulating glass units produced with **ADCOTHERM® PIB-32** routinely pass ASTM E2188, E2189, E2190 (HIGS) standards. Color variation in PIB 32 is tightly controlled via a colorimeter and PIB-32 will never exhibit black streaking.

ADCOTHERM® PIB-32 offers high application rates without sacrificing strength performance. **PIB-32** is designed to run well on high-volume, fully automated application equipment as well as manual butyl extruders. **PIB-32** 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.



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.

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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.

Limitations

- Insulating Glass-Sealant PIB-32 is not intended for use as a structural sealant.
- Insulating Glass-Sealant PIB-32 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

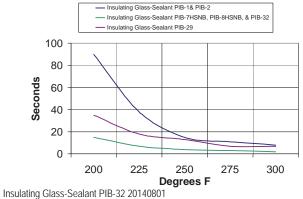
Insulating glass units incorporating **Insulating Glass-Sealant PIB-32** routinely meet the following specifications:

- 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



Press Flow Extrusion Viscosity

ASTM D-2452

Packaging

Insulating Glass-Sealant PIB-32 is available in the following standard packages:

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Part #	Physical Form	<u>Package</u>
PB-059G-56	14.0 lb (6.4 kg) slug	4 slugs (56 lb)/case
	Solid drum	Steel drum
	1/16" diameter rope	430 lb steel drum
MT-0349	3/32" diameter rope	42' rolls 2,100 ft/case
		42' rolls 2.100 ft/case

Technical Data				
Property	Typical Value	Test Method		
Moisture Vapor Transmission	0.02 g/m ² /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 Applica- tion Temperature	100°C to 130°C (212°F to 265°F)			

only. The listed properties and performance characteristics are

approximate values and are not to be interpreted as manufacturing



specifications.





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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.