

ADCOTHERM™ 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.



Features

Easily dispensed

Excellent cohesive strength

Low moisture vapor transmission rate (MVTR)

Excellent resistance to weathering

Low gas permeability

Excellent adhesion to glass, stainless steel, aluminum, and tin-plated steel, and many plastics

Ultra low volatile content

Dedicated gray PIB manufacturing line

Benefits

Dispensing viscosity will support production rates on high volume automated extruders

Reduced offset shear failures resulting in less rework and better in-plant unit handling

Increased unit life expectancy

Does not degrade upon exposure to environmental conditions

Increased argon gas retention beyond industry standards

Can be used with all commercially accepted metal spacer systems and most plastic spacer systems

No discoloration of low-e coatings

No black streaking in product

Packaging

ADCOTHERM™ PIB 32 is available in the following standard packages:

| Part # | Physical Form | Package |
|--------------|-----------------------|-------------------------|
| PB-059G-56 | 14.0 lb (6.4 kg) slug | 4 slugs (56 lb)/case |
| PB-059G-430S | Solid drum | 430 lb steel drum |
| PB-063G-S1 | 1/16" diameter rope | 42' rolls 2,100 ft/case |
| MT-0349 | 3/32" diameter rope | 42' rolls 2,100 ft/case |

CAUTION: All statements and technical information in this document are based on tests or data that ADCO believes is reliable. However, ADCO 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 ADCO's products in the user's intended application. It is the user's responsibility to conduct tests to determine the compatibility of ADCO's product with the design, structure, and materials of the user's end product and the suitability of ADCO's product for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.

Storage and Shelf Life

Store material in original unopened packaging at temperatures between 40°F-100°F. Shelf life is 24 months when stored as recommended.

Safety

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

Limitations

- ADCOTHERM™ PIB 32 is not intended for use as a structural sealant.
- ADCOTHERM™ 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 ADCOTHERM™ 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 Instructions

See ADCOTHERM™ PIB Application Guidelines

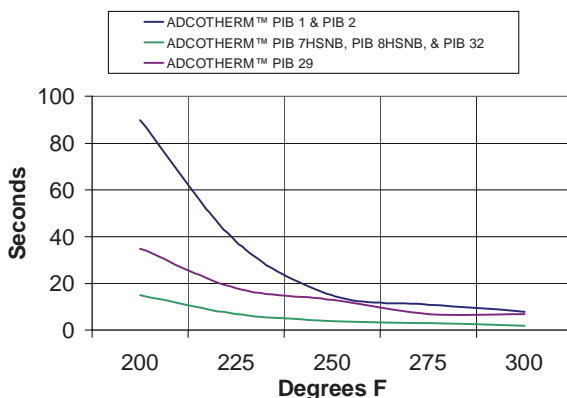
Technical Data

| Performance Properties | | |
|-----------------------------------|--------------------------------------|--|
| | Typical Values | Test Method |
| Moisture Vapor Transmission | 0.2 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 |
| 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 | | |
| Service Temperature | -45 to 80°C (-50 to 176°F) | |
| Suggested Application Temperature | 100 to 130°C (212 to 265°F) | |

NOTE:

The foregoing information is published as general information only. The listed properties and performance characteristics are typical values and are not to be interpreted as manufacturing specifications.

Press Flow Extrusion Viscosity
ASTM D-2452



Code #0009-1209

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