

ADCOTHERM™ PIB 11 Black

Pre-extruded Rope

Description

ADCOTHERM™ PIB 11 is a black polyisobutylene based sealant that exhibits excellent long-term stability and remains permanently flexible, even at low temperatures. Like all ADCOTHERM™ PIB sealants, ADCOTHERM™ PIB 11 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 11 is supplied in pre-extruded strands for manual assembly of insulating glass units. ADCOTHERM™ PIB 11 may also be used to patch corners, extrusion skips, or for general repair of primary sealant application. PIB 11 may be used as a spot repair in combination with all other ADCOTHERM™ black PIB products on a single insulating glass unit.

ADCOTHERM™ PIB 11 has very low moisture vapor transmission rates (MVTR) and gas permeability rates. Properly constructed dual-seal units incorporating ADCOTHERM™ PIB 11 will retain argon insulating gas and maintain a dry interior unit airspace for decades. Insulating glass units produced with ADCOTHERM™ PIB 11 routinely pass ASTM E2188, E2189, E2190 (HIGS) standards.

ADCOTHERM™ PIB 11 may be used with most commercially available urethane, silicone, polysulfide, or butyl hot melt insulating glass secondary sealants.

Safety

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

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.



| Features | Benefits |
|---|---|
| Low moisture vapor transmission rate (MVTR) | Increases unit life expectancy |
| Excellent resistance to weathering | Does not degrade upon exposure to environmental conditions |
| Low gas permeability | Increases argon gas retention beyond industry standards |
| Excellent adhesion to glass, stainless, aluminum, tin-plated steel, and many plastics | Can be used with all commercially accepted metal spacer systems and most plastic spacer systems |
| Ultra low volatile content | No chemical fogging. No discoloration of low-e coatings |
| High cohesive strength | Reduced offset shear failures resulting in less rework and better in-plant unit handling |

Packaging

ADCOTHERM™ PIB 11 Black is available in the following standard package:

| Part # | Physical Form | Package |
|---------|---------------------|-----------------------|
| MT-0263 | 3/32" diameter rope | 42' rolls, 2100 ft/cs |

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.

Limitations

- ADCOTHERM™ PIB 11 is not intended for use as a structural sealant.
- ADCOTHERM™ PIB 11 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 11 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 ADCOTHERM™ PIB Application Guidelines

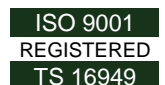


Technical Data

| Performance Properties | | |
|-----------------------------|--------------------------------------|-------------------------------|
| | Typical Values | Test Method |
| Moisture Vapor Transmission | 0.10 g/m ² /24 hr | ASTM F1249 2mm thickness |
| Argon Diffusion | 0.02 L/m ² /24h/ 760mm | ASTM D3985 3mm thickness |
| Physical Properties | | |
| Cone Penetration | 75 dmm | ASTM D217, 150g added load |
| Solids Content | 100% | |
| Specific Gravity | 1.10 | ASTM D71 |
| Weight per gallon | 9.2 lb | |
| Application Properties | | |
| Service Temperature | -45 to 80°C (-50 to 176°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.



Code #0004-12-09

WARRANTY: ADCO warrants its products to conform to ADCO's specifications at the time of sale when tested according to ADCO standards. If a product is proven to be defective when tested according to ADCO standards, ADCO 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 ADCO 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 ADCO 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.