Insulating Glass-Sealant PIB-32
Gray Pre-extruded Rope

Description
ADCOTHERM® PIB-32 is a gray polyisobutylene based sealant that exhibits excellent long-term stability and remains permanently flexible, even at low temperatures. PIB-32 is available in a pre-extruded bead rolled onto release liner. 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 supplied in pre-extruded strands for manual assembly of insulating glass units. ADCOTHERM® PIB-32 may also be used to patch corners, extrusion skips, or for general repair of primary sealant application. PIB-32 may be used as a spot repair in combination with all other ADCOTHERM® gray PIB products on a single insulating glass unit.

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.

ADCOTHERM® 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.

Features | Benefits
--- | ---
Excellent cohesive strength | Reduced offset shear failures resulting in less rework and better in-plant unit handling
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 steel, 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

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.

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

<table>
<thead>
<tr>
<th>Part #</th>
<th>Physical Form</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB-063G-S1</td>
<td>1/16” diameter rope</td>
<td>42’ rolls, 2100 ft/cs</td>
</tr>
<tr>
<td>MT-0349</td>
<td>3/32” diameter rope</td>
<td>42’ rolls, 2100 ft/cs</td>
</tr>
</tbody>
</table>

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**

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture Vapor Transmission</td>
<td>0.02 g/m²/24 hr</td>
<td>ASTM F1249 2mm thickness</td>
</tr>
<tr>
<td>Argon Diffusion</td>
<td>0.02 L/m²/24h/ 760mm</td>
<td>ASTM D3985 3mm thickness</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-45°C to 80°C (-50°F to 176°F)</td>
<td></td>
</tr>
</tbody>
</table>

**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.