Insulating Glass-Sealant PIB-11
Black Pre-extruded Rope

Description
Insulating Glass-Sealant PIB-11 is a black polyisobutylene based sealant that exhibits excellent long-term stability and remains permanently flexible, even at low temperatures. Like all PIB sealants, Insulating Glass-Sealant 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
Insulating Glass-Sealant PIB-11 is supplied in pre-extruded strands for manual assembly of insulating glass units. Insulating Glass-Sealant 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 Insulating Glass-Sealant black PIB products on a single insulating glass unit.

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

Insulating Glass-Sealant PIB-11 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 40°F-100°F (4°C-38°C). Shelf life is 24 months when stored as recommended.

Features
- Low moisture vapor transmission rate (MVTR)
- Excellent resistance to weathering
- Low gas permeability
- Excellent adhesion to glass, stainless, aluminum, tin-plated steel, and many plastics
- Ultra low volatile content
- High cohesive strength

Benefits
- Increases unit life expectancy
- Does not degrade upon exposure to environmental conditions
- Increases argon gas retention beyond industry standards
- Can be used with all commercially accepted metal spacer systems and most plastic spacer systems
- No chemical fogging. No discoloration of low-e coatings
- Reduced offset shear failures resulting in less rework and better in-plant unit handling

Packaging
Insulating Glass-Sealant PIB-11 Black is available in the following standard package:

<table>
<thead>
<tr>
<th>Part #</th>
<th>Physical Form</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT-0263</td>
<td>3/32” diameter rope</td>
<td>42’ rolls, 2100 ft/cs</td>
</tr>
</tbody>
</table>
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 BUYER’S 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.

Limitations
- Insulating Glass-Sealant PIB-11 is not intended for use as a structural sealant.
- Insulating Glass-Sealant PIB-11 is not resistant to attack by solvents, oils, and plasticizers. When constructing IG with silicone secondary sealants, care must be taken to ensure 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-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

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**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Test Method</th>
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<tbody>
<tr>
<td>Moisture Vapor Transmission</td>
<td>0.10 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>
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</table>

**Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cone Penetration</td>
<td>75 dmm</td>
<td>ASTM D217, 150g added load</td>
</tr>
<tr>
<td>Solids Content</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.10</td>
<td>ASTM D71</td>
</tr>
<tr>
<td>Weight per gallon</td>
<td>9.2 lb</td>
<td></td>
</tr>
</tbody>
</table>

**Application Properties**

-45°C to 80°C (-50°F to 176°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.