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## PIB-969 Technical Data Sheet

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### Product Description

PIB-969 is a solvent free, permanently plastic and load-dependent, deformable, one-component adhesive/sealant based on polyisobutylene (PIB), which does not cure. The material is softened by heat. The adhesion is physical; final adhesion is obtained after a press procedure.

### Application Areas

PIB-969 is used as inner sealant for the manufacture of insulating glass units in conjunction with an elastic outer sealant compound like PS-998R. PIB-969 adheres well to glass, aluminum, cast zinc, galvanized steel and stainless steel. In the case of special substrates, such as coated glass or spacer bars with modified surfaces, please contact our technical customer service. PIB-969 is also used for bonding/sealing other products in such cases, where besides good sealing properties, also the fulfillment of corresponding specifications regarding the emission of volatile components is required. Examples are the sealing of the lens of the headlamp and sealing of vehicle rear lamps made of e.g. PMMA.

### Technical Data

Color	black
Odor	odorless
Consistency	permanently plastic
Density	approx. 1.25 g/cc
Solids	100%
In service temperature range	-30°C to 80°C
Short exposure (up to 1 h)	160°C

### Application Preliminary statement

Prior to application it is necessary to read the **Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed.

### Pretreatment

All surfaces must be clean, dry and free of grease.

### Application

PIB-969 can be applied with a suitable, heatable hydraulic press (so called butyl extruder). Screw-, piston-, gear- or rotary pumps are suitable for the application of PIB-969 in pails or drums. Pump as well as follower plate, hose and application nozzle are heatable. Due to the heated follower plate PIB-969 softens at the surface and is thus pumpable. Equipment with divided heating circuits and independent control has proved advantageous, with the lowest temperature at the follower plate and the highest temperature at the application nozzle.

**ADEQUATE TESTS:** The information contained in this bulletin we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be made in your laboratory or plant to determine if this product meets all of your requirements.

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Because the optimal application temperature depends on several parameters, trials for fine-tuning of the temperature are recommended. The preferred range of temperature is 125°C to 140°C. The unpressed polyisobutylene can be removed by touching it lightly with a piece of the same material. Moisture condensation hinders the contact between PIB and the substrate. For this reason no under cooled substrates should be coated. It is, therefore, necessary to warm the substrates, e. g. spacer bars, sufficiently. PIB-969 in drums (200 l) requires a non-sticking interlayer (siliconized paper) between the bottom of the drum and the product, which enables the retraction of the follower plate after emptying of the drum. This interlayer normally sticks to the follower plate and **must be removed prior to using the next drum.**

### Storage

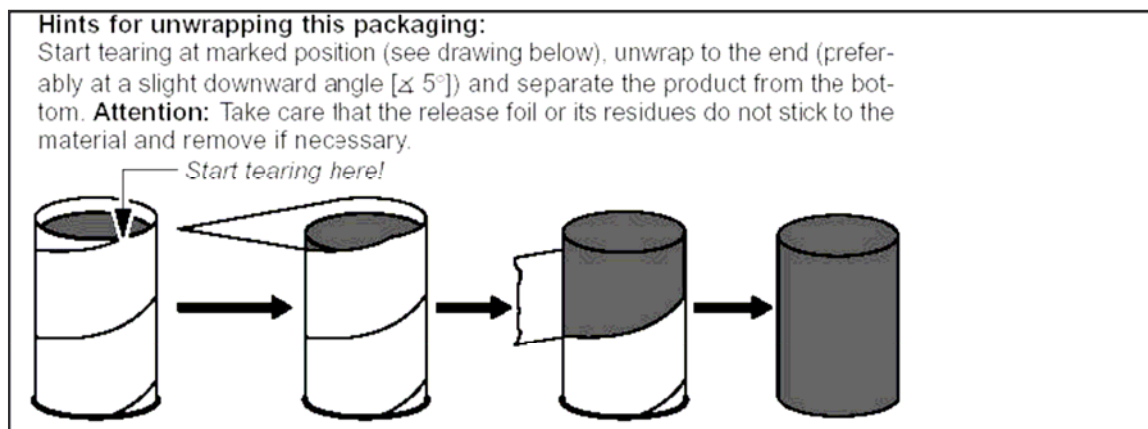
Frost-sensitive No, but adequate storage at work room temperature before use is necessary.

Recommended storage temperature +15°C to +24°C; protect from direct sun and/or heat irradiation. A storage at +4°C to +15°C as well as +24°C to +41°C does not affect the product, but influences probably the operation properties.

Shelf-life 12 months in the original packaging

### Packaging

Cardboard drum 7.8 kg for extruder\*:  
200 mm diameter, 250 mm height



Tin 2.5 kg for extruder\*:  
150 mm diameter, 170 mm height

Reel with profile profile dimensions 3 mm x 1 mm  
10 reel in a cardboard box, correspond to 500 m (minimum order size)

Drum, 200 l ca. 190 kg bulk material \*\* (interior diameter: 571.5 mm)

\* the dimensions are valid for the extruder cylinder  
\*\* the exact weight is printed on the label

### Insulating Glass Information

In addition to the present Technical Information (Technical Data Sheet, we issue so-called "IG Info" Information Sheets on various aspects regarding the manufacture and use of multi-pane insulating glass units, which provide more detailed information on how to use our products. Do not hesitate to make use of them.

### Hazard Indications / Safety Recommendations / Transport Regulations

see Safety Data Sheet

**LIMITED WARRANTY AND TERMS**  
H.B. FULLER COMPANY

H.B. Fuller Company ("Fuller") warrants that, for a Warranty Period of one year (or the period specified on the applicable Technical Data Sheet, whichever is less) from the date of shipment from Fuller to the Initial Purchaser, that this Fuller product was manufactured in accordance with Fuller's specifications in effect on the date of manufacture. These specifications are available upon request. This Warranty does not cover test data, or any defects, damages or other harms caused to any extent or in any way by failure to follow applicable Fuller instructions, if any, or abuse or misuse of the product.

**WARRANTIES DISCLAIMED — THE WARRANTY STATED IN THE PARAGRAPH ABOVE IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. Fuller EXPRESSLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALTHOUGH Fuller MAY HAVE SUGGESTED THE PRODUCT OR DEVELOPED THE PRODUCT AT THE PURCHASER'S REQUEST, IT IS THE PURCHASER'S RESPONSIBILITY TO TEST AND DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURCHASER'S INTENDED USE AND PURPOSE, AND PURCHASER ASSUMES ALL RISK AND LIABILITY WHATSOEVER REGARDING SUCH SUITABILITY.**

**LIMITATIONS OF REMEDIES AND DAMAGES — FOR ANY VALID CLAIM PRESENTED UNDER THE LIMITED WARRANTY, Fuller WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS REPLACEMENT/REFUND REMEDY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST Fuller. THE PURCHASER AGREES THAT NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO PURCHASER FOR CLAIMS ARISING OUT OF ANY USE OF THE PRODUCT REGARDLESS OF THE LEGAL THEORY (CONTRACT, TORT OR OTHER). IN NO EVENT WILL Fuller BE OBLIGATED TO PAY DAMAGES TO PURCHASER IN ANY AMOUNT EXCEEDING THE PRICE THAT THE PURCHASER PAID FOR THE PRODUCT.**

**NO INDEMNITIES** – Except as expressly stated herein, in no event will Fuller be liable to indemnify or to hold Purchaser harmless against any form of liability.

**LIMITATION OF ACTIONS AND VENUE** — Any claim made or action commenced by Purchaser under Fuller's limited warranty as set forth herein must be brought within one year from the date of shipment from Fuller to the Purchaser. Purchaser agrees that all disputes arising from Fuller's sale of product to Purchaser shall be brought, if at all, in and before a court located in the State of Minnesota, to the exclusion of the courts of any other state.

**ARBITRATION** – Purchaser agrees that any claim of less than \$100,000 shall be submitted for binding arbitration before a single arbitrator and shall be governed by the rules and procedures of the American Arbitration Association. The arbitrator and the American Arbitration Association shall be paid by the Purchaser.

**CONDITIONAL ACCEPTANCE** — Fuller's acceptance of Purchaser's order for this product is expressly conditional on Purchaser's assent to terms and conditions set forth herein.

9 April 2008