

# ADCOTHERM™ PIB-1 BLACK & PIB-2 GRAY

## PRIMARY SEALANTS FOR DUAL SEAL HORIZONTAL ASSEMBLY

### PRODUCT DATA SHEET



#### Description

ADCOTHERM PIB-1 and PIB-2 are polyisobutylene sealants designed for use as the primary moisture barrier in insulating glass units. Like all ADCOTHERM PIB sealants, ADCOTHERM PIB-1 and PIB-2 exhibit excellent adhesion to glass and aluminum, low argon permeability, and inherently low moisture vapor

Compressibility properties for ADCOTHERM PIB-1 and PIB-2 have been optimized for horizontally stacked assembled dual seal IG windows. Compressibility properties have been optimized to provide sufficient wet-out after pressing while minimizing over-compressing in a bottom-of-the-stack unit. ADCOTHERM PIB-1 and PIB-2 exhibit reduced flow versus other PIB offerings when submitted to a set pressure.

Over-compressing can lead to overly thin PIB sealant thickness, and a correspondingly higher risk of failure in bottom-of-stack units. Thus, ADCOTHERM PIB-1 and PIB-2 can reduce incidence of failure.

This technology is available in black, ADCOTHERM PIB-1, and gray, ADCOTHERM PIB-2. ADCOTHERM PIB-1 and PIB-2 may be used with urethane, silicone, polysulfide or butyl hot melt insulating glass sealants.

#### Features & Benefits

Features	Benefits
Superior Compression Resistance	Allows for stacking of window units during build, without increased risk of failure.
Low MVTR (moisture vapor transmission rate)	Increases unit life expectancy
Good resistance to weathering	Will not degrade upon exposure to environmental conditions
Excellent gas retention	Extend argon gas retention
Good adhesion	Adheres to glass, stainless steel, aluminum, tin-plated steel
Ultra low volatile content	No chemical fogging No discoloration of low-E coatings
Easily dispensed slugs and drums	Can be used with drum or slug fed extruders.

#### Basic Use

ADCOTHERM PIB-1 and PIB-2 are formulated to provide a primary moisture barrier for insulated glass units. Performance has been optimized for use on horizontal stack assembled units. ADCOTHERM PIB-1 and PIB-2 are designed for application by automated linear extruders.

ADCO Products, Inc. P.O. Box 457, 4401 Page Avenue Michigan Center, MI 49254 (800)248-4010 (517)764-6697 Fax



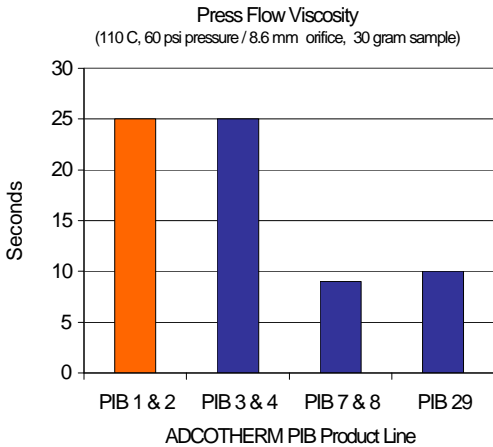
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#### Typical Performance Properties

Moisture Vapor Transmission ASTM F1249, 0.080" thickness	0.1 g/m <sup>2</sup> /24 hr.
Press Flow Extrusion Viscosity ASTM D2452, 110°C (230°F), 8.6 mm orifice	25 seconds
Compression Resistance (Flow Characteristics Under Load) ADCO Test Method T-12	0.05 inches (1.3 mm)
Shear Strength Glass/Aluminum (1" x 1" x 0.035")	24 psi cohesive failure
Cone Penetration ASTM D217, 150 g added load	45 dmm

#### Physical Properties

Solids Content	100%
Specific Gravity (ASTM D71)	1.16
Weight Per Gallon	9.66 lb.

#### Application Recommendations

Service Temperature	-45 – 120°C (-50 – 250°F)
Suggested Application Temperature	110 – 140°C (230 – 285°F)

#### Shelf-life Properties

Storage	Store indoors below 38°C (100°F) in dry environment away from all sources of heat
Shelf Life	2 years from the date of manufacture

#### Packaging

ADCOTHERM PIB-1 and PIB-2 are available in the following standard packages:

##### ADCOTHERM PIB-1 BLACK

Package	Unit Size	Part Number
15.0 lb. slug (6.8 kg)	1 case (4 slugs)	PB-040B-60

##### ADCOTHERM PIB-2 GRAY

Package	Unit Size	Part Number
15.0 lb. slug (6.8 kg)	1 case (4 slugs)	PB-050B-60
25.0 lb. slug (11.4 kg)	1 case (1 slug)	PB-050B-25

#### Health & Safety

A complete Material Safety Data Sheet (MSDS) is available from ADCO for health and safety precautions.

#### Availability/Price

Availability and price may be obtained from your ADCO representative.

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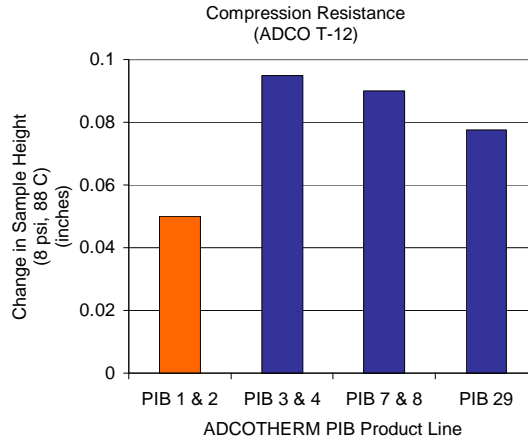
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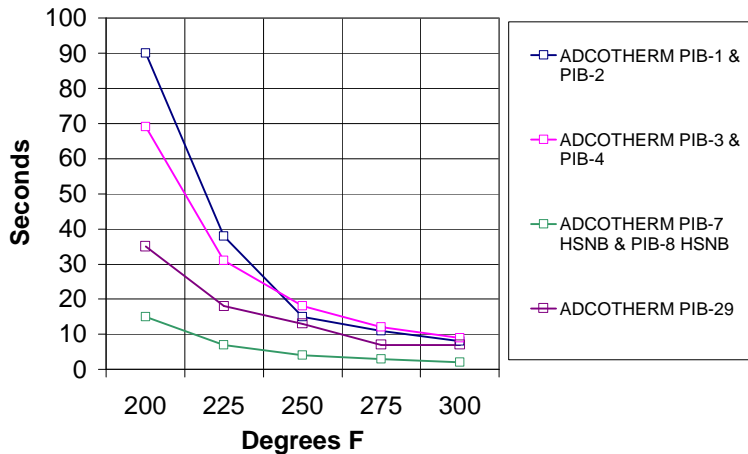
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**Press Flow Extrusion Viscosity**  
ASTM D-2452  
30 grams, 60 psi, 8.6 mm diameter orifice



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