

# Smart Seal, Good Feel

LEADING-EDGE HOT MELT SEALANTS FOR INSULATING GLASS UNITS



## SMART SEALANTS FOR INSULATING GLASS UNITS

## How sealants contribute to the overall performance of Insulating Glass Units



- Thermal efficiency The gas retention and warm edge effect of the sealants determine energy ratings
- Barrier properties Sealants keep moisture out to prolong the service lifespan of IGUs
- Processability Choose the right technology, as some require mixing, purging and curing times
- Safety Avoid harmful substances for a safer home and workplace

## Hot melt sealants : the leading-edge technology chosen by Bostik

With over 35 years of experience in the manufacture of Insulating Glass sealants, Bostik has grown to become a market leader having put its faith in hot melt technology:

- Unparalleled product performance and processability
- Comprehensive product line : primary & secondary sealants
- Dedicated R&D team and expert technical support focused on product innovation and on helping customers with continuous improvement to get the best out of our products.

Each year over 50,000,000 insulating glass units are manufactured using Bostik hot melt sealants globally - equivalent to twice around the world in linear metres!





## Member of reference associations





## Compliant with globally-recognised standards :

- ASTM
- CEKAL (registration for selected products)
- EN 1279-2&3 (system) / EN 1279-4 (sealant)



## THE RIGHT CHOICE FOR INSULATING GLASS UNITS

# Bostik's hot melt sealants not only bring the best value to IGU manufacturers but also to their end-users.



## **APPLICATION METHODS**





### Manual application

- » Melt on demand & extrude using handheld gun
- » Instant seal with no curing
- » No purging, no waste
- » Compatible with all window shapes

#### Automated-line application

- » High-speed robotic application ready
- » Application cycle time as low as 16 seconds for 600 mm x 900 mm units
- » Lean manufacturing:
- Fast turn-around with "no curing"
- No waste
- » Workplace efficiency improved

## **TECHNICAL PERFORMANCE**

## Sealant barrier performance comparison



Bostik's hot melt technology provides the best-in-class performance for enhanced gas retention and moisture barrier and longer unit durability.

 Moisture Vapour Transmission Rate
Argon Gas Permeation

## Thermal conductivity comparison



Bostik's hot melt technology offers lower thermal conductivity for an increased warm-edge effect.

## **OUR RANGE OF HOT MELT SEALANTS**



## **BOSTIK 2000**

#### **Primary sealant**

Compounded PIB (Polyisobutylene)

Offers excellent adhesion to the spacer with low moisture vapour transmission rate.

Fully compatible with most 1-part and 2-part secondary sealants available on the market.

Relative Density	Approx. 1.16 - 1.2 g/cm <sup>3</sup>
Moisture Vapour	< 0.07 g/m² per day for 2 mm film at 25 °C
Transmission Rate	(77 °F), 100 % RH (ASTM method E96)

#### Packaging

• 7 kg slugs • 200 kg drums



## **BOSTIK 5000**

### Secondary sealant

Single part butyl rubber-based hot melt

Offers **best-in-class moisture vapour transmission rate properties** with **unparalleled processability** for the most demanding applications.

Relative Density	Approx. 1.16 – 1.18 g/cm <sup>3</sup>
Moisture Vapour	< 0.1 g/m² per day for 2 mm film at 25 °C (77 °F),
Transmission Rate	100 % RH (ASTM method E96)

### Packaging

• 200 kg fibre drum • 200 kg steel drum • 6.5 kg block



## **BOSTIK 6000**

Secondary sealant



Single part butyl rubber-based hot melt

**Bostik 6000 with i-Boost™ Technology** is the next generation of single part hot melt butyl sealants for the production of insulating glass units.

- Improved mechanical properties
- Higher temperature resistance
- Enhanced productivity

Relative Density	Approx. 1.16 – 1.18 g/cm <sup>3</sup>
Moisture Vapour	0.06 g/m² per day for 2 mm film at 25 °C (77 °F),
Transmission Rate	100 % RH (ASTM method E96)

## Packaging

• 200 kg fibre drum • 200 kg steel drum • 6.5 kg block

## Smart Help: contact.building@bostik.com

#### IMPORTANT - PLEASE READ BEFORE USING THIS BROCHURE

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