

Insulating Glass-Sealant 3070HS

Black Butyl Hot Melt Sealant

Description

Insulating Glass-Sealant 3070HS is a hot applied sealant formulated for single seal insulating glass. This product has been designed for insulating glass manufacturers that are running hand applied, semi-automated, and linear extruded operations.

Based upon Royal's proprietary high-strength technology, **Insulating Glass-Sealant 3070HS** offers substantial performance advantages including:

- Immediate high strength development for superior handling and transportation capabilities
- Excellent slump resistance, resulting in reduced after-application tooling
- Low after-application tack for ease of handling
- Excellent adhesion to glass and metal

Unlike other hot melt sealants, Royal's high-strength technology develops immediate strength upon cool-down. An **Insulating Glass-Sealant 3070HS** sealed window has sufficient strength at the end-of-line to withstand more than 4 times the shear stress associated with an unsupported residential lite, even at elevated temperatures up to 140°F (60°C). This industry leading performance translates to a substantial reduction in risk of window damage during handling and transportation.

Insulating Glass-Sealant 3070HS has been formulated to maintain its flexibility below temperature of -25°F (-32°C). 3070HS offers excellent resistance to the day-to-day temperature cycling a typical window experiences.

Insulating Glass-Sealant 3070HS has low argon permeability and exceptional moisture vapor transmission rates. The product has been formulated to exceed ASTM E2188, E2189, E2190 (HIGS) specifications.

Basic Use

Insulating Glass-Sealant 3070HS is formulated to provide a primary moisture barrier for insulating glass units and provide structural integrity for the IG assembly. It is designed for use with hand-applied-extrusion equipment and fully-automated hot melt applicators. (See Royal's application guide for a complete outline of guidelines for hot melt applied sealants.)

Insulating Glass-Sealant 3070HS 20140801

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.



Features

High strength

Low moisture vapor transmission rate (MVTR)

Superior slump resistance

Low surface tack

Ultra low volatile content

Benefits

Increased structural integrity, superior resistance to transportation stresses

Longer life expectancy for IG units, including single-sealed units

Material does not sag at unit corners. Reduced waste and need for rework

Ease of handling during unit construction

No chemical fogging. No discoloration of low-e coatings

Packaging

Insulating Glass-Sealant 3070HS is available in the following standard packages:

Part #	Physical Form	Package	Weight
IG-026B-475S	Steel Drum	48 US gallons	475 lb
IG-026B-006	Box	8 per case	6 lb/case

Storage and Shelf Life

Store indoors below 38°C (100°F) in a dry environment away from all sources of heat. Shelf life is 24 months from the date of manufacture when stored as recommended.

Health & Safety

Prior to working with this or any product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

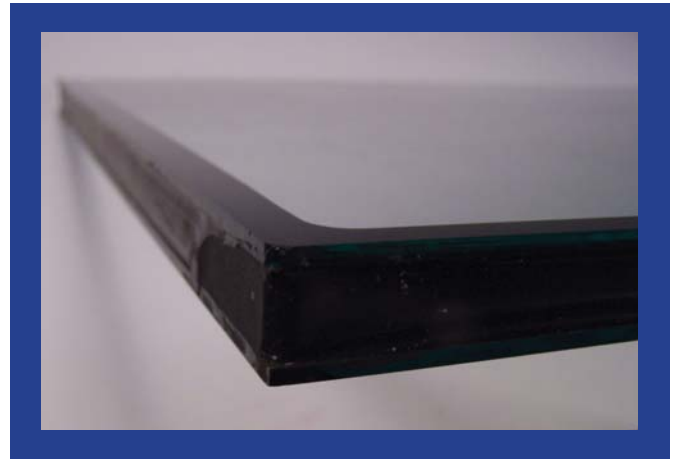
CAUTION: appropriate care must be taken to avoid burns when using this or any hot melt sealant.

Limitations

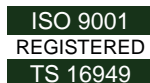
- **Insulating Glass-Sealant 3070HS** is not for use in structural or sloped glazing.

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.



Technical Data		
Property	Typical Value	Test Method
Moisture Vapor Transmission	0.35 g/m ² /24 hr	ASTM F1249 2mm thickness
Static Load Resistance	>24 hours	140°F (60°C) 454 gm load (1" x 1" x 0.035")
Shear Strength	50 psi	Aluminum/Aluminum (1" x 1" x 0.035")
Shear Adhesion Failure Temperature	194°F (90°C)	ASTM D4498
Low Temperature Flexibility	Flexible at -20°F (-29°C)	
Physical Properties		
Solids Content	100%	
Color	Black	
Specific Gravity	1.18	ASTM D71
Weight per Gallon	9.85 lb.	
Application Properties		
Suggested Application Temperature	175°C-205°C (350°F-400°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.		



Insulating Glass-Sealant 3070HS 20140801

Page. 2/2

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