

ADCOTHERM 3070-HS

High Strength Single Seal Insulated Glass Hot Melt

Product Data Sheet

Description

ADCOTHERM 3070-HS is a hot applied sealant formulated for single seal insulated glass applications. This product has been designed for insulated glass manufacturers running hand applied operations.

Based upon ADCO's proprietary High-Strength Technology, ADCOTHERM 3070-HS 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

Offering exceptionally slump resistance, ADCOTHERM 3070-HS is designed to minimize the need for after-application tooling and repair, reducing labor time, glove costs and total production time per unit.

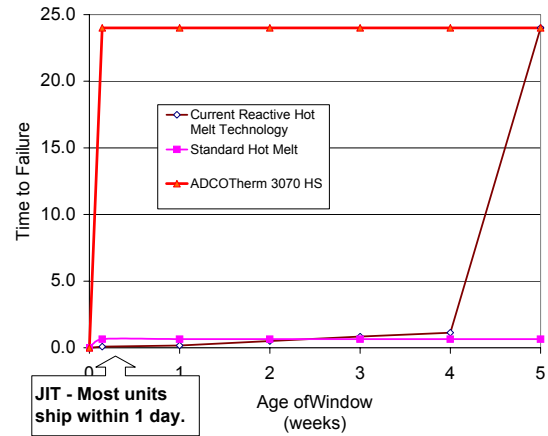
Unlike other hot melt sealants, ADCO's High-Strength Technology develops immediate strength, on cool-down. An ADCOTHERM 3070-HS sealed window has sufficient strength at the end-of-line to withstand more than 4 times the shear stress associated with an unsupported residential lite, even at elevated temperatures of 140F. No other sealant on the market provides that level of protection. This industry leading performance translates to a substantial reduction in risk of window damage during handling and transportation.

ADCOTHERM 3070-HS has been formulated to maintain its flexibility below temperatures of -25°F. ADCOTHERM 3070-HS offers excellent resistance to the day-to-day temperature cycling a typical window experiences.

ADCOTHERM 3070-HS provides worry-free end-of-line performance Whether a unit is stacked unevenly, submitted to bumps and potholes during transportation, summer temperatures in an enclosed truck in Southern Florida, or the freezing weather of Canada.

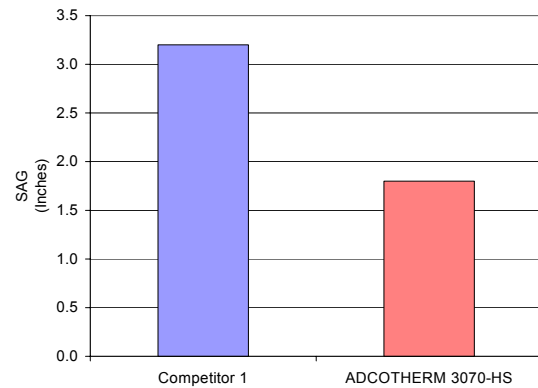
Like all ADCO's ADCOTHERM sealants, ADCOTHERM 3070-HS boasts low argon permeability and exceptional moisture vapor transmission rates. ADCOTHERM 3070-HS has been formulated to exceed ASTM E773/E774 specifications.

Dead Load Strength,
140F, 450 gm

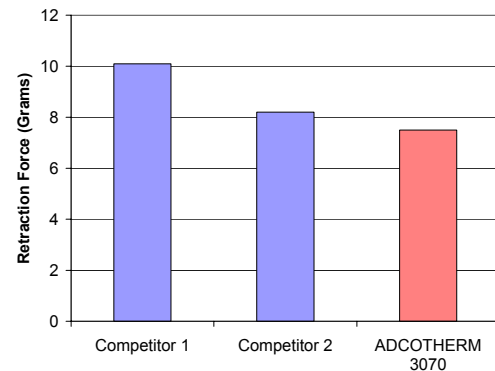


JIT - Most units ship within 1 day.

Boeing SAG 350 F



Ease of Handling
End-of-Line Tack Reduces Glove Cost



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Features & Benefits

| Features | Benefits |
|---|---|
| Highest strength of any hand applied thermally applied insulating glass sealant | Increases the structural integrity of the sealed unit. Superior resistance to transportation stresses. Reduced liability. |
| Unsurpassed moisture vapor transmission (MVT) properties | Longer life expectancy for units |
| Superior slump resistance | Material does not sag at unit corners. Reduced need to rework unit after application. |
| Low surface tack | Ease of handling during unit construction |
| Ultra low volatile content | No chemical fogging No discoloration of low-E coatings |

Basic Use

ADCO THERM 3070HS is formulated to provide a primary moisture barrier for insulated glass units. It is designed for use with hand extrusion equipment. (See ADCO's application guide for a complete outline of application guidelines for hot melt applied sealants).

Packaging

ADCO THERM 3070HS is available in the following standard packages:

| Part Number | Color | Package | Package Volume (US Gal.) | Fill Volume (US Gal.) | Weight |
|--------------|-------|------------|--------------------------|-----------------------|---------|
| IG-026B-475F | Black | Fiber Drum | 55 | 48 | 475 lb. |
| IG-026G-475F | Grey | Fiber Drum | 55 | 48 | 475 lb. |
| IG-026B-040 | Black | Steel Pail | 5 | 4 | 40 lb. |
| IG-026G-040 | Grey | Steel Pail | 5 | 4 | 40 lb. |
| IG-026B-006 | Black | | 8" x 4" x 3" Cake | | 6 lb. |
| IG-026G-006 | Grey | | 8" x 4" x 3" Cake | | 6 lb. |

Performance Properties

| | |
|--|-------------------------------|
| Moisture Vapor Transmission ASTM F1249, 0.080" thickness | 0.11 g/m ² /24 hr. |
| Static Load Resistance 60°C (140°F), 1 lb. load Aluminum/Aluminum (1" x 1" x 0.035") | >24 hours |
| Shear Strength Aluminum/Aluminum (1" x 1" x 0.035") | 55 psi cohesive failure |
| Shear Adhesion Failure Temperature Glass/Aluminum (1" x 1" x 0.035") 250g load | 91°C (196°F) |
| Low Temperature Flexibility | flexible at -29°C (-20°F) |
| Press Flow Extrusion Viscosity ASTM D2452, 115°C / 239°F ASTM D2452, 149°C / 300°F | 65 seconds 35 seconds |

Physical Properties

| | |
|---|---|
| Color | Black - Part No. IG-026B Grey - Part No. IG-026G |
| Solids Content | 100% |
| Brookfield Thermosel Viscosity, 190°C | 300,000 cps |
| Cone Penetration ASTM D217, 150 g added load | 29 dmm |
| Needle Penetration ASTM D5, 50 g added load | 29 dmm |
| Specific Gravity ASTM D71 | 1.19 |
| Weight Per Gallon | 9.91 lb. |

Application Properties

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|-----------------------------------|---------------------------|
| Suggested Application Temperature | 175 – 205°C (350 – 400°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 |

Health & Safety

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

Availability & Price

Availability and cost may be obtained from your ADCO THERM representative.