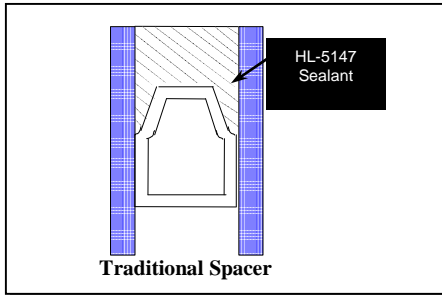




HL-5147 Product Information

Product Description

HL-5147 hot melt butyl is a 100% solids, black, single- component sealant designed for the sealed insulating glass industry. It is formulated from butyl rubber, synthetic polymers and elastomers to give outstanding adhesion to glass and aluminum when fabricated manually. The product is resistant to degradation from ultraviolet light, temperature extremes and water immersion.



Application Limitations

- HL-5147 is compatible with low E coatings. It should **not** be used in non-edge deleted applications unless approved by the glass supplier.
- HL-5147 is **not** intended for structural glazing applications.
- HL-5147 should only be used in sloped glazing applications after review by a design specialist. It should not be used if the IG is unframed or unsupported.

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.

Table 1 Typical Application Properties	
Color	Black
Shelf Life	One Year
Hand Gun Application Temp. (at tip)	190 - 205°C
Form and Packaging	Drum, Pail, Cake

Table 2 Typical Physical Properties	
Raw Material Base	Synthetic Resin
Specific Gravity	1.17
MVTR 38°C/98% RH 1.5mm film	0.32 gm/m ² /day
RT, 2.3 kg Dead-load Shear Time	500 min.
RT Overlap Shear Strength (Al/Al):	0.54 mPa

Applicable Standards

HL-5147 hot melt sealant meets or exceeds the requirements of the following standards:

- Level CBA requirements of ASTM E773/E774
- prEN 1279

Surface Preparation

Glass must be cleaned with detergent and hot water when using the HL-5147 hot melt sealant. We suggest glass supplier's recommended practices for glass washing. Good practices include using hot water (50 - 60°C) and detergent.

Do we need to edge delete our low-E glass? We have done some limited performance testing with specific types of non-edge deleted low-E glass. Your H.B. Fuller representative can supply you with a list of testing types and results.

Contaminants on the spacer stock affect the adhesion of HL-5147 hot melt butyl sealant. Spacer stock should always be covered when stored. Contaminants like oil, dust, corrosion and dirt negatively affect the adhesion of any sealant. Check for cleanliness by taking a clean white cloth and wiping the spacer. Any noticeable particles or oils must be removed prior to manufacturing.

H.B. FULLER'S ACCEPTANCE OF ANY ORDERS FOR THIS PRODUCT IS EXPRESSLY CONDITIONAL UPON PURCHASER'S ASSENT TO THE TERMS SHOWN ON THE REVERSE SIDE.

Glazing

All glazing recommendations of Insulating Glass Manufacturers Alliance (IGMA) should be followed.

Contact between HL-5147 hot melt butyl edge seal and any solvent- or oil-containing glazing compound should be avoided. For recommendations on specific glazing designs or use of glazing compounds, contact H.B. Fuller.

Equipment Suggestions

Drum unloaders with gun attachments are available. H.B. Fuller is a distributor of application equipment and can help you select the right system for your operation. We also have equipment service capabilities.

Clean Up

Any uncured material can be cleaned up with a common solvent, such as acetone or MEK.

Health & Safety Precautions

To minimize the risk of burns, eye protection and thermally protective clothing should be worn when working near a hot melt applicator. To minimize the risk of flammable vapors, do not exceed a melt temperature of 235°C. Prevent the buildup of vapors. Extinguish all sources of ignition during hot melt use. Use only in a well-ventilated area. Consult Material Safety Data Sheet for additional information.

WARNING: EXTREME CARE SHOULD BE EXERCISED WHEN WORKING WITH HOT MELTS IN THEIR HOT, FLUID STATE.

Severe burns will result if skin contact occurs. When moving a hot melt from one location to another, thermally protective gloves should be worn. If skin contact occurs, immediately immerse contact area in cold, clean water for at least 30 minutes. Cover contacted area with a wet, clean compress, and see a physician immediately.

Packaging & Shelf Life

HL-5147 hot melt butyl sealant is packaged and shipped in sealed, straight-sided 55-gallon drums and five-gallon pails and cakes. HL-5147 has a shelf life of one year from the date of manufacture.

Disposal

- In most localities, empty pails or drums may be crushed and sent to a local landfill. Since local landfills have the right to refuse any material, check first.
- Check with the local drum recycler to see if they will accept the empty drums for recycling.
- Empty drums or pails also may be discarded as scrap metal at a local scrapping company.
- Check the Material Safety Data Sheet for disposal requirements.

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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.

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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.