

CRL 3070

High Strength Single Seal IG Hot Melt

CRL SEALANTS

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Description:

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

CRL 3070 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, CRL's high-strength technology develops immediate strength upon cool-down.

A CRL 3070 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. This industry leading performance translates to a substantial reduction in risk of window damage during handling and transportation.

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

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

FEATURES	BENEFITS
High Strength	Increased structural integrity, superior resistance to transportation stresses.
Low Moisture Vapor Transmission Rate (MVTR)	Longer life expectancy for IG units, including single-sealed units.
Superior Slump Resistance	Material does not sag at unit corners. Reduced waste and need for rework.
Low Surface Tack	Ease of handling during unit construction.
Ultra Low Volatile Content	No chemical fogging. No discoloration of low-e coatings.

Basic Use:

CRL 3070 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.

Packaging:

CRL 3070 is available in the following standard packages:

CAT. NO	PACKAGE	FILL VOLUME	WEIGHT
CRL307055	Steel Drum	48 US Gallons	475 lbs
CRL30705	Pail	5 US Gallons	50 lbs
CRL30703	Box	3 lb cake 16/case	48 lbs
CRL30706	Box	6 lb chunk 8/case	48 lbs

CAUTION:

All statements and technical information in this document are based on tests of data that MFR believes is reliable. However, MFR 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 CRL's products in the user's intended application. It is the user's responsibility to conduct tests to determine the compatibility of CRL's product with the design, structure, and materials of the user's end product and the suitability of CRL's products for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.

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Storage and Shelf Life:

Store material in original unopened packaging at temperatures between 40°F - 100°F. Shelf life is 24 months when stored as recommended.

Safety:

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

Limitations:

CRL 3070 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:

PERFORMANCE PROPERTIES		
	Typical Values	Tests Method
Moisture Vapor Transmission	0.35 g/m ² /24 hr	ASTM F1249 2 mm Thickness
Static Load Resistance	>24 hours	60°C (140°F) 454 gm lb load (1" x 1" x 0.035")
Shear Strength	50 psi	(1" x 1" x 0.035")
Shear Adhesion Failure Temperature	90°C (196°F)	ASTM D4498
Low Temperature Flexibility	Flexible at -29°C (-20°F)	
PHYSICAL PROPERTIES		
Color	Black	
Solids Content	100%	
Weight per gallon	9.91 lb.	
Specific Gravity	1.18	
APPLICATION PROPERTIES		
Suggested Application Temperature	175-205°C (350-400°F)	

NOTE

The foregoing information is published as general information only. The listed properties and performance characteristics are typical values and are not to be interpreted as manufacturing specifications.

WARRANTY:

MFR. warrants its products to conform to MFR.'s specifications at the time of sale when tested according to MFR. standards. If a product is proven to be defective when tested according to MFR. standards, MFR. will, at its option, refund the purchase price or replace or repair the defective product. THIS LIMITED WARRANTY IS THE BUYERS SOLE AND EXCLUSIVE REMEDY AGAINST MFR. AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall MFR. be liable for any special, incidental, consequential, or punitive damages arising out of any claims whether based on negligence, contract, warranty, strict liability or otherwise.

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