

SEALANTS

9542 INSULATING GLASS SILICONE

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9542 Insulating Glass Silicone

7

CRL
PROFESSIONAL QUALITY
JULY 2013

PROPERTIES AS RECEIVED

Color	Black
Rheology	Non-Slump
Specific Gravity	1.03
Chemical Type	One Part Neutral Cure Silicone Sealant

TYPICAL PHYSICAL PROPERTIES

Following results were obtained from a 2 mm thick film of fully cured 9542. Samples cured 7 days at 75°F and 50% relative humidity.

Hardness, Shore A26
Tensile Strength, psi	325
Extrusion Rate	330 grams/minute @ 90 psi 1/8" Dia. Nozzle
Elongation, %	550
Functional Temperature Range	-40°F to +400°F
Environmental Aging	Good to Excellent

ADHESION

Peel Strength (pounds per lineal inch)	
Glass	30 pli
Aluminum	30 pli

TACK FREE TIME

Dry to touch in 10-20 minutes, depending upon temperature and humidity.

CURE TIME

1/8" diameter bead will cure at room temperature 70°F/21°C and 50% relative humidity in 24 hours.

BARRIER SEAL

In order to obtain complete moisture vapor protection, a barrier seal is recommended. Polyisobutylene should be applied to the spacer directly by extruder, or by hand in the form of a tape. This method is recommended for small and medium size manufacturers. Polyisobutylene tape is the recommended product for this application.

MANUFACTURING TECHNIQUE

1. Apply polyisobutylene tape.
2. Apply 9542.

APPLICATION METHOD

1. Clean and degrease all glass and aluminum surfaces.
2. Place polyisobutylene tape on spacer and press glass to spacer.
3. Apply silicone under pressure by keeping bead ahead of the gun tip. This will force silicone into intimate contact with the glass and aluminum.
4. Allow silicone to properly cure as per manufacturer's instructions before installation of unit.

PACKAGING INFORMATION

9542 is available in 55 gallon drums and 10.3 fl. oz. (305 ml) cartridges.

SHELF LIFE

9542 has a shelf life of one year at room temperature (70°F/21°C) in sealed containers.

INSULATING GLASS CONSTRUCTION

To manufacture a high quality long-life unit, it is recommended that a dual system be used. This system should consist of a barrier seal of polyisobutylene and an edge seal of 9542.

PUMPING EQUIPMENT

55 GALLON DRUM

ARO, GRACO, BINKS RTV pumping systems. On all pumping systems premature curing can occur if drum is not properly sealed around gasket of follower plate. All material lines must be reinforced for optimum performance. Regular organic hoses are NOT recommended for dispensing 9542.

SPACERS

Anodized aluminum spacers filled with desiccant are recommended. Spacer edges should be brazed ultrasonically or if corner keys are used, pack the corner completely with polyisobutylene tape. Improper corner preparation can lead to premature failure of the insulating glass unit.

DESICCANT

For best results fill the spacer with a molecular sieve desiccant (CRL Desiccants or equivalent).

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LIMITED WARRANTY NOTICE: CRL and its manufacturer warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products but also upon many factors beyond our control in the application process. Therefore, except for such replacement or refund CRL and its manufacturers make no warranty or guarantee, expressed or implied,

including warranties of fitness or merchantability, respecting its products. CRL and its manufacturers shall have no other liability with respect thereto. User shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the CRL Product Manager.

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7
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