

EdgeSil™ IGS3559

Silicone Insulating Glass Sealant

Product Description

EdgeSil IGS3559 sealant is a two-component, high modulus of elasticity, neutral silicone elastomer. It cures in the presence of air moisture to give a high performance product, especially for structural bonding seal in curtain wall application.

Key Features and Typical Benefits

Performance

- **Excellent Elasticity** - Maintains strong flexibility and displacement deformation ability to accommodate joint movement and structural shifts.
- **Adhesion Performance** - Achieves reliable bonding to various powder-coated metals and coated aluminum substrates without the need for a primer.
- **Chemical and Temperature Resistance** - Retains typical properties when exposed to a broad range of chemicals and across wide temperature extremes.
- **Structural Capability** - Highly effective as a glazing silicone, suitable for a variety of structural assembly applications.

Application

- **Versatile Glazing Use** - Ideal for a wide range of structural and glazing applications in commercial construction.
- **Consistent Performance** - Maintains adhesion and elasticity even when subjected to challenging environmental conditions.

Aesthetics

- **Neutral Cure Silicone** - Provides a clean, professional finish compatible with diverse façade and framing designs.

Potential Applications

EdgeSil IGS3559 is an excellent candidate to consider for:

- Structural adhesive assembly in curtain wall
- Hollow glass construction bonding
- Adhesive and joint application to types of coated aluminum
- Glass, shield glass, aluminum-plastics plate ceramic application

Packaging

EdgeSil IGS3559 sealant is comprised of the following:

- Part A - 190-liter.
- Part B - 19-liter.

Colors

EdgeSil IGS3559 sealant is available in black.



Black

Typical Physical Properties

Typical property values of EdgeSil IGS3559 sealant as supplied and cured are set forth in the tables below. Typical product data values should not be used as specifications.

Typical Properties

Uncured Properties	
Slump	≤3 mm
Applicable Period	≥30 minutes
Fully Cured	24 hours
Cured Properties (Cured at 25°C and relative humidity of 50% for 7 days)	
Hardness Shore A	28-40
Tensile Strength	≥0.6 MPa
Ultimate Elongation	150%
Temperature Duration	-50 °C ~ +170 °C

Typical properties are averagedata and are not to be used as or to develop specifications.

Installation

Mixing, Pumping and Dispensing

- EdgeSil IGS3559 should be mixed and dispensed using two-component mixing equipment. These mixing / pumping systems are specifically designed to meter precise proportions of A base and B catalyst, in a sealed environment, then mix and dispense material at proper pressures and volumes to ensure thoroughly mixed, air-free material.
- Consult equipment manufacturer or equipment manual for startup and shutdown procedures, operating pressures, mixing devices, and purging requirements.
- Hand mixing of A base + B catalyst is not recommended, except when performing pre-use quality testing.
- When exchanging B catalyst on equipment, care should be taken to minimize exposure to the environment in order to prevent premature curing of the catalyst.
- EdgeSil IGS3559 is a suitable candidate for both 'in-line' mixing systems and "purgeless" after-the-gun mixing equipment. Consult equipment manufacturer and/or Momentive Performance Materials (MPM) for information on mixing device options.
- When properly mixed, the material should be a solid, homogeneous color largely free of any swirling or marbling of colors. If incomplete mixing is noticed, cease operation until equipment adjustments can be performed to ensure that complete mixing is being attained.
- EdgeSil IGS3559 sealant is a two-component structural sealant which must be applied by a special two-component gluing machine, and the colloid is easy to stir evenly. This makes it easy to process, only requires a manual or pneumatic cartridges gun. The substrate surface should be dry, clean and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion.

Quality Control Recommendations

- Upon receipt and prior to production, a sample of base (part A) and catalyst (part B) can be taken from each lot of material to be used, weighed to the desired A/B ratio, mixed and checked for proper curing before placing material into production. This procedure validates material performance separately from production equipment.
- A Quality Control program is highly recommended to aide in the assessment of proper and consistent mixing during operations. Daily snap time and butterfly testing should be performed at line start up and after material changes on equipment. Contact an MPM Technical Services representative for information on suggested Quality Control checks.

- Adhesion testing to production substrates should be included within the quality control program.

Product Storage and Shelf Life

EdgeSil IGS3559 sealant has a shelf life of 12 months from its date of manufacture (the expiry date is shown on the packaging), when stored at a temperature below 25°C in its original unopened packaging.

Technical Services

Additional technical information, literature, laboratory testing and application engineering may be available upon request from MPM. Any technical advice furnished by MPM or any representative of MPM concerning any use or application of any MPM product is believed to be reliable but MPM makes no warranty, expressed or implied, of suitability for use in any application for which such advice is furnished.

Limitations

Customers must evaluate MPM products and make their own determination as to fitness of use in their particular applications.

- It is not recommended for use in airtight space, or the sealant can not be cured properly.
- It is not recommended for use emerged in water.
- It must not be used on materials which can bleed certain oil or plasticizer, or the sealant will loss its adhesion performance.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers considering the use of this product should review the latest SDS and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. SDS are available at www.siliconesforbuilding.com or, upon request, from any MPM representative. Use of other materials in conjunction with MPM sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Customer Service Centers

North America - America, Canada	+1 800 295 2392 Toll free Email: commercial.services@momentive.com
Latin America	Brazil +55 11 5128-4222 Direct Number Email: contato@momentive.com Mexico +52 55 2169 7670 Direct Number Email: commercial.services@momentive.com
EMEIA - Europe, Middle East, Africa, and India	Europe +39 0875 758888 Direct Number Middle East, Africa and India + 91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com
APAC - Asia Pacific	China 800 820 0202 Toll free +86 21 3860 4928 Direct Number Japan Sales: JP.Silicones@momentive.com South Korea +82 2 3495 2141 Direct Number South East Asia, Australia & New Zealand +60 3 8309 8088 Direct Number* *South East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region).
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