

Gasket Compound Options, Selection, and Comparison to ASTM Specifications

When deciding on what compound would be best for a given application you need to first determine what specifications are required for a given project.

The Architectural specifications for rubber gaskets are:

ASTM C 509:

Standard Specification for Elastomeric Cellular Preformed Gasket and Sealing Material

ASTM C 864:

Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers

ASTM C 1115:

Standard Specification for Dense Elastomeric Silicone Rubber Gaskets and Accessories

Compounds used in Tremco Glazing Solutions:

- Silicone
- SCR-900
- Peroxide EPDM
- EPDM
- PVC

Tremco Silicone Compounds

Tremco Silicone compounds have excellent resistance to weather, sunlight and ozone with the ability to retain rubbery properties through extremes in temperatures. Tremco Silicone sealants will adhere to our silicone extrusions and have been approved for full contact in structural glazing applications with structural silicone sealants. Tremco Silicone compounds do not comply with ASTM C 864 specification, but are tested in accordance to ASTM C 1115, Type C (Compression Set Resistance). Silicones have very low compression set values, which are excellent for compression glazing.

Tremco Silicone Compound Material Warranty Period:

20 Years

For more information on Tremco's Glazing and Facade Restoration Solutions, please visit our website at www.tremcosealants.com or contact your local Tremco Sales Representative.

Tremco SCR-900

Tremco's proprietary Silicone Compatible Rubber has excellent resistance to weather, sunlight and ozone with the ability to retain rubbery properties through extreme temperatures. Tremco SCR-900 complies with ASTM C 864 Option II specification. Tremco SCR-900 has superior compression set properties to help maintain good sealing pressures. ASTM C 864 specification requires the compound to have a maximum compression set value of 30%. Tremco SCR-900 compounds have compression set values of less than 15% with tensile values exceeding the ASTM C 864 minimum requirements. Recommended Tremco silicone sealants will adhere to SCR-900. Tremco SCR-900 is approved for point and full contact with Tremco structural silicone sealants.

Tremco SCR-900 Material Warranty Period: 20 Years

Tremco Peroxide EPDM

Tremco Peroxide EPDM compounds have superior compression set properties to help maintain good sealant pressures. Recommended Tremco silicone sealants will adhere to Tremco Peroxide EPDM. ASTM C 864 specification requires the compound to have a maximum compression set value of 30%. Tremco Peroxide EPDM compounds have compression set values of less than 15% with tensile values exceeding the ASTM C 864 minimum requirements. Tremco offers Peroxide EPDM compounds that are available in 60, 70, and 85 durometer.

Tremco Peroxide EPDM Material Warranty Period: 15 Years

Tremco EPDM

Tremco EPDM (Ethylene Propylene Diene Monomer) compounds are naturally weather resistant and do not require additional additives to improve their weather ability, unlike Neoprene compounds. Neoprene additives are designed to migrate to the gasket's surface for protection. Unfortunately, these additives do not react well with silicone sealants and may cause a loss of adhesion. This is another reason we recommend Tremco EPDM compounds over Neoprene.

Tremco EPDM compounds have excellent resistance to heat, ozone and sunlight and very good flexibility at low temperatures, which make them the ideal material for outdoor service. Tremco EPDM materials comply with ASTM C 864, Option II specification.

Tremco EPDM Material Warranty Period: 10 Years

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Tremco PVC

Tremco PVC (Polyvinyl Chloride) extrusions are thermoplastic and are tested in accordance to ASTM D 2287. A thermoplastic will soften when heated and re-harden when cooled. Where as an EPDM compound is a thermoset material and once cured, heat will not soften or reshape the profile.

Tremco PVC materials generally have poor resistance to ozone and UV, which can cause surface cracking, crazing and chalking. Over time PVC materials can actually shrink in both cross-section and length, thus resulting in the increase passage of air and water.

Tremco does not recommend PVC materials for compression glazing applications. These compounds are used in non-compression glazing applications only.

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