

Silquest A-174™

Silquest* A-174

Description

Momentive Performance Materials Silquest A-174 silane is employed in adhesive and sealant systems cured via a free radical mechanism, such as polyesters, polyurethanes, acrylics, and many thermoplastics such as PVC, polyolefins and polyurethanes.

Key Features and Benefits

Feature	Benefit
Methacryloxy Functionality	<ul style="list-style-type: none"> • For use in free radical cure adhesives and sealants based upon resin systems such as polyesters, polyurethanes, acrylics, and many thermoplastics such as PVC, polyolefins and polyurethanes.
Methoxy Silane Functionality	<ul style="list-style-type: none"> • Bonds to inorganic substrates to provide excellent wet and dry adhesion. • Fast hydrolysis rate.

May be copolymerized with vinyl acetate, vinyl chloride, acrylates, or methacrylate monomers to yield a moisture curable silylated polymer. Such polymers may be incorporated into adhesive and sealant systems to enhance adhesion to substrates such as glass, metal and some plastics. (See SPUR* prepolymer-based technology literature for additional ideas regarding the benefits of silane crosslinked polymer chemistry).

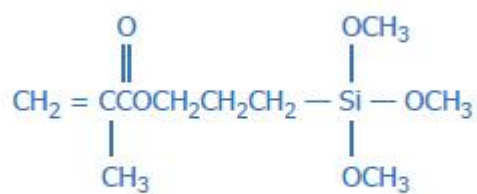
May result in the enhancement of strength performance, both initially and after wet conditioning, of glass, silica, silicate, and metal oxide filled polyester resin systems.

Improves the wet electrical performance of many mineral-filled thermoplastic materials such as crosslinked polyethylene and polyvinylchloride.

Typical Physical Properties

Appearance	Clear light straw liquid
Molecular Weight	248.1
Specific Gravity at 25/25°C	1.045
Refractive Index n_D 25°C	1.429
Flash Point, Tag Closed Cup, °C (°F)	108 (226)
Boiling Point, °C (°F)	255 (491)

Chemical Structure



Gamma-Methacryloxypropyltrimethoxy Silane

Commercial Status

Silquest A-174 silane is commercially available. Contact your sales or customer service representative to enter a sample request, or place an order.

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

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