

GENERAL SEALANTS, INC.

GS# 90 Stress Grading Mastic

Technical Data Sheet

PRODUCT DESCRIPTION

GS# 90 Stress Grading Mastic is a synthetic rubber-based sealant formulated to be used primarily in conjunction with medium voltage cable components. This pliable, self-fusing, oil resistant mastic has a high dielectric constant which provides for excellent electrical stress control in joints and terminations while also filling any air voids to ensure a moisture proof connection.

PRODUCT ADVANTAGES

- High dielectric constant
- Excellent control of electrical stresses
- Fast and easy to apply by hand
- Non-Hazardous
- Self-fusing
- Permanently flexible
- Service temperature of -20°F to 200°F (-29°C to 93°C)

APPLICATION

Surface should be free of moisture, oil and dust for maximum bond. Apply the sealant by hand to the application surface and pull the product firmly and wrap it overlapping itself by roughly 50%. Ideal application temperature is 45°F (7°C) or above.

Product is not considered hazardous to skin however wash hands before eating. DO NOT TAKE INTERNALLY.



TYPICAL PHYSICAL PROPERTIES

Chemical Base	Synthetic Rubber
Color	Yellow
Specific Gravity (ASTM D792)	1.01
Total Solids	100%
Penetration (ASTM D217) cone at 72°F / 150 grams	20-40 (2.0 to 4.0 mm)
Rolling Ball Tack (ASTM D3121)	>12 cm (11/16" Ball)
Flexibility (ASTM C765)	No cracking or loss of adhesion at -10°F (-23°C) when bent around 3/8" mandrel (9.5mm)
Staining (ASTM D925)	Will not stain painted or unpainted surfaces
Odor (ASTM D1833)	Aromatic
Crazing to Acrylic Plastics	Will not craze plastics
Volume Resistivity (ASTM D257-14)	7.0 x 10 ¹⁰ ohm-cm
Dielectric Constant (ASTM D150-11)	18.1

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TYPICAL PHYSICAL PROPERTIES CONTINUED

Tensile Adhesive Strength (ASTM C907)	50 psi (typical failure mode 100% cohesive)
Adhesion	Good
Water Resistance	Excellent
Service Temperature	-20°F to 200°F (-29°C to 93°C)
Shelf Life (Storage at 72°F/ 22°C)	1 Year from DOM

NOTE: TECHNICAL INFORMATION AND DATA SHOULD BE CONSIDERED REPRESENTATIVE OR TYPICAL ONLY AND SHOULD NOT BE USED FOR SPECIFICATION PURPOSES.

PACKAGING

GS# 90 Stress Grading Mastic is primarily extruded in 1/8" x 1" x 24" strips packed 160 pieces per case with release liner on both sides, but other custom sizes are available upon request.

STORAGE AND HANDLING

Material should be stored at 72°F (22°C) in a dry area in its original sealed case and case must remain right side up.

For more information on GS# 90 Stress Grading Mastic, please email Sales@GeneralSealants.com or call (800)-762-1144 to speak with a representative from our sales department.

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