

Preliminary Technical Data Sheet

Typical Application — Weathering/UV Resistant

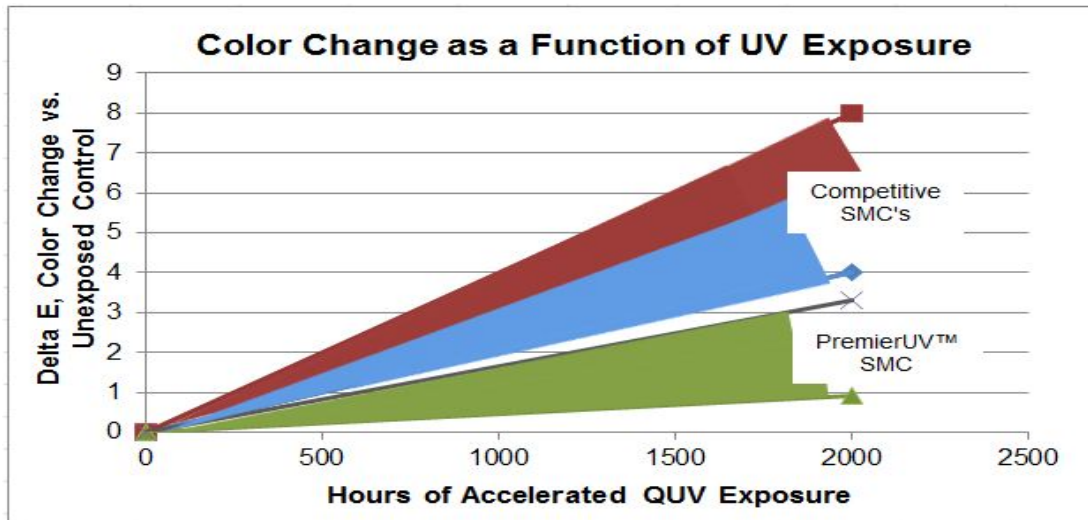
PremierUV VSH-25S is a fiberglass reinforced thermoset sheet molding compound designed for applications requiring excellent weathering/UV resistance, including those that require electrical performance and flame retardance.

Key Features and Benefits:

- Excellent resistance to UV exposure/outdoor weathering
- Superior resistance to color fade, chalking and fiber bloom
- Pigmentable for molded-in color; best appearance with mold texture
- Versatile molding performance in flat, ribbed or complex geometries
- Non-halogen FR technology for regulatory compliance/low smoke toxicity

Typical Values. Mechanical values are from net-shape compression-molded specimens.

Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	30,000 psi	212 Mpa
Flexural Modulus	ASTM D-790	1.6 x 10 ⁶ psi	11 GPa
Tensile Strength	ASTM D-638	10,000 psi	70 MPa
Tensile Modulus	ASTM D-638	1.7 x 10 ⁶ psi	12 GPa
Notched Izod	ASTM D-256	18 ft*lb/in	900 Joules/m
Unnotched Izod Impact	ASTM D-4812	21 ft*lb/in	1100 Joules/m
Flame Resistance	Vertical Burn	Pass, 0.091 in	Pass, 2.3 mm
Dielectric Strength, kV/mm	ASTM-D149	400 Volts/mil	16 kV/mm
Arc Resistance, Seconds	ASTM-D495	180+ sec	180+ sec



This SMC product is generally intended to be compression molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process. Polymerization shrinkage on the basis of cold mold to cold part is nominally .00175 to .0025 in/in. Contact your Premix sales representative for specific design recommendations before cutting molds.

The values presented in this data sheet are typical values and are not to be interpreted as product specifications. Color retention is dependent on specific product color and upon environmental exposure conditions. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, expressed or implied.

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