

Preliminary Technical Data Sheet

Typical Application — Weathering/UV Resistant

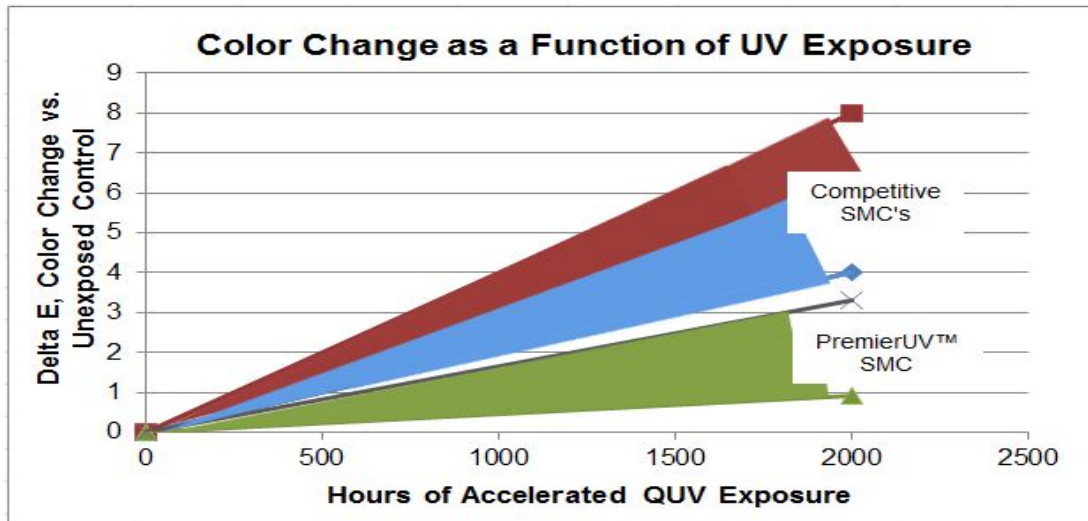
PremierUV VSH-25S is a fiberglass reinforced thermoset sheet molding compound designed for applications requiring excellent weathering/UV resistance, including those that require electrical performance and flame retardance.

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.