



PremierUV™ VQH-55S  
Sheet Molding Compound

Technical Data Sheet

Typical Application — Low Density / Structural / Semi-Structural

PremierUV™ VQH-55S is a fiberglass reinforced thermoset sheet molding compound for structural and semi-structural applications where, high strength, UV resistance and durability are required in a low density composite.

Key Features and Benefits:

- Specific gravity of 1.4 for weight savings vs standard composites.
- Excellent mechanical properties and outstanding toughness.
- Outstanding UV properties

Typical Values. Mechanical values are for Individually Compression Molded Specimens .

Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	39,000 psi	270 MPa
Flexural Modulus	ASTM D-790	2.0 X 10 <sup>6</sup> psi	14 GPa
Tensile Strength	ASTM D-638	17,000 psi	120 MPa
Tensile Modulus	ASTM D-638	2.8 X 10 <sup>6</sup> psi	19 GPa
Notched Impact	ASTM D 256	26 ft*lb/in	1,400 Joules/m
Unnotched Impact	ASTM D 256	36 ft*lb/in	1,900 Joules/m
Specific gravity	ASTM D-792	1.4	1.4
Moisture Absorption	ASTM D2584	0.46 %	0.46 %

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 is approximately 0.00020 in/in. Glass fiber content nominal - 55% w/w Contact your Premix sales representative for specific design recommendations.

Following physical characteristics are typical of this product:

CLTE, XY direction:	14 ppm / °C
CLTE, Z direction:	42 ppm / °C
Thermal Conductivity:	0.22 W / mK
Poisson's Ratio:	0.29