



iNVENTA 616UL SMC Material

Description: INVENTA 616UL is a non-halogenated fiberglass reinforced thermoset SMC material. This proprietary SMC was specially formulated by MFG for HVAC components, however the attributes are ideal for many applications where non-flammability is crucial.

Properties	Values (Metric)	Values (English)	Test Method
Tensile Strength	70 MPa.	10,153 psi	D-638
Tensile Modulus	14,067 MPa.	2.04 X 10 ⁶ psi	D-638
Poisson's Ratio	0.25	0.25	D-638
Flex Strength	187 MPa.	27,122 psi	D-790
Flex Modulus	10,349 MPa.	1.50 X 10 ⁶ psi	D-790
Izod Impact	656 J/m.	11.3 ft-lbs/in	D-256A
Shrinkage mils/in (in/in)	-1.4 mil/in	-1.4 (-0.0014)	MFG Research 2514
Specific Gravity	1.99	1.99	D-792
Glass Content %	22	22	D-2584
Flammability: UL Certification 94-5V at 0.050			Certified
Flammability Rating UL 723	FSI 5 SDI 5	FSI 5 SDI 5	UL Certified
Moisture Absorption %	0.35	0.35	D-570

Approvals/Certifications:

- UL 723 Approved. Tested by ASTM E-84 (Steiner Tunnel Test)
- ROHS Compliant
- EU Reach Compliant



Applications: HVAC components such as condensate pans, HVAC bases and blower housings. Electrical utility equipment. Automotive structural components. Other applications where fire retardant characteristics are essential.

MFG offers a number of UL-approved formulations specifically designed for various applications, and also support customer applications for specific UL approvals. Our engineering and R&D laboratory is available to assist with evaluation, testing and certification of material options that will result in the performance target you desire.

The values presented are typical values and are not to be interpreted as product specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, express or implied. Data were obtained from laboratory test plaques and do not necessarily represent the values that will be attained on a molded part. Rev. 0 (06/13)