



## Material Series: AS-8250 FR

### SERIES DESCRIPTION & APPLICATION

AS-8250 is a SMC that allows for high strength performance with higher Tensile Elongation than other Structural SMC's. The product has the unique ability to be customized for low shrink and the ability to be compliant to UL VO properties. Parts such as heat shields, prosthetics, and battery boxes are ideal. The material flows and fills large parts that are often difficult with other high glass SMC's.

General Material Properties		
Property (Test Method)	Value	Units
Specific Gravity (ASTM D792)	1.75-1.85	
Mold Shrinkage (ASTM D955)	0.05	%
Water Absorption (ASTM D570)	0.12-0.18	%
Poisson's Ratio	0.29	
Glass Content	50	%

Mechanical Material Properties (Net Shape Molded Coupons)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	26,000	180	psi (MPa)
Tensile Modulus (ASTM D638)	2.1x 10 <sup>6</sup>	15	psi (GPa)
Tensile Elongation (ASTM D638)	1.6	1.6	%
Flexural Strength (ASTM D790)	39,000	270	psi (MPa)
Flexural Modulus (ASTM D790)	1.8 x 10 <sup>6</sup>	12.5	psi (GPa)
Short Beam Sheer (ASTM D234)	3,200	22	psi (MPa)
Notched Izod Impact (ISO 180/4A)	-	85	KJ/m <sup>2</sup>

Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 V-0) *NON-LISTED*	Pass 0.24	Pass 6	in (mm)
Heat Deflection Temperature (ASTM D648)	>500	>260	°F (°C)

All property values are based on test performed on standard ASTM test samples and according to standard ASTM test methods unless otherwise indicated. This information is offered solely for your consideration and is to be used as a guide only. No other warranty is implied.

### Contact Us:

#### CORPORATE HEADQUARTERS

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