



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	E210 Molded Components for Electric Vehicle Battery Applications
Description:	E210 is a high-strength glass-reinforced molding compound designed for electric vehicle battery applications. Its high strength-to-weight ratio and flexural modulus make it an ideal material option for structural or support applications. E210 also has natural electrical insulating properties making it suitable for supporting live electrical components. The material is compression molded into custom shapes, commonly including metallic inserts such as threaded inserts for mechanical connections and improved mechanical strength.
Applications:	E210 is a suitable material for battery enclosures, frames, holders, brackets, and end plates.

Key Characteristics	Test Method	Units - English (SI)	E210 SMC Typical Values
Standard Color*	--	--	Black*
Glass Content	--	%	50%*
Density	--	lb/in (g/cc) ³	0.066 (1.83)
Water Absorption (0.125")	ASTM D-570	%	0.25
Tensile Strength	ASTM D-638	psi (MPa)	14,000 (97)
Compressive Strength, Flat-Wise	ASTM D-695	psi (MPa)	20,000 (138)
Flexural Strength	ASTM D-790	psi (MPa)	59,000 (407)
Flexural Modulus	ASTM D-790	ksi	4,100
IZOD Impact Strength, Edge-Wise	ASTM D-256	ft-lbs/in	14
Shear Strength	ASTM D-732	psi (MPa)	18,000 (124)
Glass Transition Temperature	DMA Method	°F (°C)	320 (160)

* Custom formulation available to meet application requirements

* Custom colors available upon request