



Structural Thermoset - BMC/SMC Market Applications

Markets	Applications	Defining Properties
Military & Aerospace	Military aviation, radomes Military aviation, rotary aircraft components Military aviation, ammunition cartridge handling guides Munitions containers Weapon components	high temperature resistance, fire retardant, high strength-to-weight ratio, design flexibility, corrosion resistance, durable, high impact resistance, excellent memory characteristics, radar absorption, light weight
Transportation	Automotive, fuel vapor canister bracket Automotive, heat shield Automotive, radiator bracket Automotive, sun roof drainage channel Automotive, body shield Automotive, leaf spring Automotive, skip plate Rail, switchgear Rail, window casing	high temperature resistance, fire retardant, high strength-to-weight ratio, dimensional stability, high impact resistance, parts consolidation, reduced tooling costs, design flexibility, paintable surfaces, dielectric strength, corrosion resistance, moisture resistance
Safety	Firemen's helmet Firefighting equipment Composite toe cap Bump cap	high temperature resistance, fire retardant, high strength-to-weight ratio, low smoke and toxicity generation, dimensional stability, high impact resistance, corrosion resistant, electrical insulation, RFI/EMI/ESD resistance, molded-in color
Medical	X-ray equipment components Prosthetics	corrosion resistance, dielectric strength, molded-in color, excellent cosmetic appearance, antimicrobial properties, high temperature resistance, fire retardant, dimensional stability, x-ray transparency or opaqueness, thermal insulation
Electrical	Switchgear	corrosion resistance, high strength, high temperature resistance, dielectric strength
Industrial	Drive equipment coupling Load bearings Springs Valve bodies Circular saws	corrosion resistance, high strength-to-weight ratio, high temperature resistance, dielectric strength, dimensional control, UV stability, non-sparking
Alternative Energy	Solar, power tiles Wind, turbine blades Fuel cell, bipolar plates, end panels	corrosion resistance, UV stability, high temperature resistance, high tensile strength, dielectric strength, high strength-to-weight ratio, consolidation of parts, paintable surface or molded-in color, design flexibility, fire retardant, low specific gravity, structural rigidity, moisture resistant
Marine	Out drive Gimbal housing Gimbal rings and cowlings Power boat seat shells Personal watercraft longerons (internal stringers)	corrosion resistance, high strength-to-weight ratio, low water absorption