

“Structural Syntactic Foams for Composite Core Applications”

High Temperature Foams for Auto, Marine & Aerospace Use



SYNFOAM ADVANTAGES

- High HDT (up to 150°C)
- High Modulus
- Excellent Adhesion to FRP
- Liquid Castable System
- Water Resistant
- High Impact Resistance
- CFC & VOC Free



Product No.	Foam Density (±1 lbs/ft ³)	Compressive Strength (psi)	Compressive Modulus (psi)	Heat Deflection Temperature (°C)*	Thermal Conductivity (W/mK)	Coefficient of Thermal Expansion (x 10 ⁻⁶ in/in/°C)
EFC-50	5	60	1,200	100-150	0.021	23
EFC-100	10	320	9,500	100-150	0.025	25
EFC-150	15	1,300	18,000	100-150	0.032	25
EFC-200	20	1,850	32,000	100-150	0.039	30

* HDT is dependent on selected curative and cure conditions. Please contact for information regarding cure selection for your application

SYNFOAM EFC provides a unique combination of structural properties combining a strong lightweight polymer matrix and low density hollow microsphere reinforcement enabling excellent performance in composite core applications. The epoxy backbone creates superior adhesion to most materials.

SYNFOAM EFC offers much higher heat resistance combined with high compressive strength than other core materials. SYNFOAM EFC is resistant to hydrocarbons fuels and chemicals and has very low water absorption. It has very good temperature resistance compared to thermoplastic core materials.

SYNFOAM EFC is castable and has a suitable viscosity for RTM and meter-mix dispense equipment. The material is expandable and an excellent gap filler with high adhesion. The surface finish as cast can vary from high gloss to a matte depending on mold finish. Complex shapes can be fabricated reducing or eliminating machining

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