

SYNFOAM® LFR Castable, Flame Retardant Lightweight Syntactic Foam

Typical Properties:

Property	Units	LFR-8	LFR-10	LFR-20	LFR-30	LFR-40
Density	pcf (± 2)	8	10	20	30	41
Compressive Strength	psi	250	390	1,395	3,150	4,900
Compressive Modulus	psi	7,800	10,000	43,000	69,000	110,000

Product Description:

SynFoam LFR is a two part closed cell resin system that is based on epoxy rather than polyurethane chemistry. LFR is flame retardant, has high impact resistance, and can withstand continuous exposure up to 300°F and remain rigid. SynFoam LFR has low dielectric loss and dielectric properties. The weight is significantly lower than most low loss materials used for electronic applications. SynFoam LFR is shipped as two components which when mixed together can be poured and cast into various shapes and sizes.

Application Suggestions:

SynFoam LFR can be used for any application where a light weight rigid structure is desired. SynFoam LFR finds use for core applications in the aerospace and transportation industries. Because of its flame retardant properties it can be used for insulation. SynFoam LFR has been used for nozzle closures and is also used for electronic applications such as potting and encapsulation.

Quality Statement:

SynFoam has a full testing lab for both new product R&D and Quality Assurance to measure our foam's structural properties. We work hard to exceed each customers' performance and delivery requirements. Adherence to production SOPs enable each product to be made with batch to batch reproducibility. We can machine our products to customer specifications and provide a marine quality finish as needed. We work closely with customers to select the proper grade for a successful and reliable implementation in each end use application. Customer references are available upon request.

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