

Engineered Syntactic Systems SF-38 Subsea Syntactic Void Filler

Category : Polymer , Thermoset , Epoxy

Material Notes:

SF-38 is a specially engineered syntactic formulated to serve as a void filler for subsea applications. The material is provided as a three-part kit that is mixed and poured into any free-flood cavity or void. The mix is allowed to cure at room temperature to form a solid syntactic material that will withstand repeated ocean excursions to depths of 4,000 feet. The easily cast system is provided in three parts; two resin components and a solid filler. The two resin components are mixed together, followed by the glass bubble filler. When the three materials are uniformly mixed, the moderate viscosity combination may be poured into its desired location. Initial cure will occur over a twenty four hour period at ambient temperatures, (50°F - 90 °F), providing a solid, lightweight article which is ready for any secondary operation such as machining, finishing or painting. Full cure will take place after 7 – 10 days. The cured material will provide an average of 26 pounds of buoyancy per cubic foot in seawater.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Engineered-Syntactic-Systems-SF-38-Subsea-Syntactic-Void-Filler.php

Physical Properties	Metric	English	Comments
Density	0.577 - 0.641 g/cc	0.0208 - 0.0231 lb/in ³	
Water Absorption	<= 3.0 % @Time 86400 sec	<= 3.0 % @Time 24.0 hour	at 4000 ft.depth

Mechanical Properties	Metric	English	Comments
Compressive Strength	>= 29.0 MPa	>= 4200 psi	
Compressive Modulus	>= 1.31 GPa	>= 190 ksi	
Hydrostatic Design Basis	36.5 MPa	5300 psi	Hydrostatic Crush Strength (12,000 feet)

Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	from manufacture date

Descriptive Properties	Value	Comments
Color	White/Tan	

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