

Engineered Syntactic Systems AZ-38 Deep Water Syntactic Foam

Category : Polymer

Material Notes:

Syntactic foams are a combination of hollow spheres, a resin matrix, and other additives. When combined and processed properly, the constituents form a lightweight homogeneous material having high compressive and hydrostatic strengths. This yields a product able to withstand the high hydrostatic pressures experienced by today's manned and unmanned subsea vehicles. The HZ Grade of syntactic has been formulated to survive the deepest depths of the ocean. This class of syntactic will survive crush pressures greater than 20,000 psi making for safe operation in the Hadal Zone. These engineered products can provide up to 24 pounds of buoyancy per cubic foot at these depths. Each block is cast as a single unit, but may be cut to fit the application requirement. Blocks or trimmed parts may also be bonded together to form a larger structure.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Engineered-Syntactic-Systems-AZ-38-Deep-Water-Syntactic-Foam.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 depth

Mechanical Properties	Metric	English	Comments
Compressive Strength	84.8 MPa	12300 psi	
Compressive Modulus	2.72 GPa	394 ksi	
Hydrostatic Design Basis	106.01 MPa	15375 psi	Hydrostatic Crush Strength

Descriptive Properties	Value	Comments
Service Depth (feet)	25000	
Service Pressure (psi)	11000	

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