

Engineered Syntactic Systems MZ-38 Deep Water Syntactic Foam

Category : Polymer

Material Notes:

Syntactic foams are a unique 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 MZ Grade of syntactic safely operates in the oceans Mesopaleic Zone, down to depths of 1,000 meters. (3280 feet). This group of syntactics is produced using the same technology as the Navy's submarine void filling materials. This workhorse foam system has been thoroughly tested both during development and during its long history in service. It has been found to be a safe, reliable, cost effective buoyancy source for the relatively shallow requirements for a syntactic. 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-MZ-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	29.8 MPa	4320 psi	
Compressive Modulus	1.34 GPa	195 ksi	
Hydrostatic Design Basis	41.4 MPa	6000 psi	Hydrostatic Crush Strength

Descriptive Properties	Value	Comments
Service Depth (feet)	3295	
Service Pressure (psi)	1450	

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