

Engineered Syntactic Systems BZ-28 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 BZ Grade of material is specially engineered, high performance syntactics capable of operating within much of the Bathypelagic Zone (4,000 meters or 13,100 feet). Due to the nature of the syntactic constituent materials, the BZ Grade is available in a range of densities and strengths. The product is cast in block, sheet or rod form and has isotropic properties. It may be cut or machined to any size or shape to consistent buoyancy at depth. 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-BZ-28-Deep-Water-Syntactic-Foam.php

Physical Properties	Metric	English	Comments
Density	0.417 - 0.481 g/cc	0.0150 - 0.0174 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	33.6 MPa	4880 psi	
Compressive Modulus	1.45 GPa	210 ksi	
Hydrostatic Design Basis	42.7 MPa	6200 psi	Hydrostatic Crush Strength

Descriptive Properties	Value	Comments
Service Depth (feet)	12500	
Service Pressure (psi)	5500	

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