

CRG Industries Advantic™ 30 Syntactic Foam

Category : Polymer , Thermoset

Material Notes:

Advantic is a series of lightweight, engineered foams consisting of manufactured glass, polymer, or ceramic hollow spheres embedded in a resin matrix, such as epoxy or cyanate ester. CRG Industries' proprietary mixing process produces foams with low densities, high uniformity, and minimum voids. Advantic also exhibits high compressive strength. Typical applications include underwater buoyancy, structural core for aerospace components, dielectric applications, blast mitigation, and sporting equipment. Advantic can be easily machined using standard carbide-tipped tools.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CRG-Industries-Advantic-30-Syntactic-Foam.php

Physical Properties	Metric	English	Comments
Density	0.500 g/cc	0.0181 lb/in ³	helium pycnometer
Water Absorption	<= 2.0 %	<= 2.0 %	after 213 days; ASTM D570

Mechanical Properties	Metric	English	Comments
Compressive Strength	29.3 MPa	4250 psi	ASTM D695
Compressive Modulus	1.10 GPa	160 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0840 W/m-K	0.583 BTU-in/hr-ft ² -°F	ASTM D5930
Maximum Service Temperature, Air	90.0 °C	194 °F	

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