

Hexcel® HexWeb® ACG® - 1/4 Honeycomb Aluminum Commercial Grade

Category : Metal , Metal Foam, Mesh, or Honeycomb , Nonferrous Metal , Aluminum Alloy , 3000 Series Aluminum Alloy

Material Notes:

HexWeb® Aluminum Commercial Grade honeycomb is made from 3000 series aluminum alloy foil. An organic coating is applied to the foil which provides excellent protection against corrosive atmospheres. Five cell sizes and densities are available. The honeycomb is manufactured by bonding together sheets of aluminum foil which are expanded to form a cellular honeycomb configuration. The node bond adhesive is a thermosetting type, cured under heat and pressure with the honeycomb in the unexpanded or HOBE® (Honeycomb Before Expansion) condition. Slices are cut from the unexpanded material to specified thickness, or cell depth, and then expanded to final configuration. The honeycomb can be supplied either expanded or in HOBE slices. Any sheet thickness between 0.125 and 20 inches can be provided. The aluminum substrate can be perforated so that all cells will be vented in a slice as thin as 0.187 inches. The perforations of the HexWeb® ACG® foil allow outgassing of the adhesives used to bond panel facings. Nonperforated honeycomb is also available. Applications: HexWeb® ACG® is a commercial grade honeycomb core offering industrial designers the advantages of an all-metal honeycomb with long service life and resistance to fungus, moisture, and temperature. Uses include industrial tooling panels , architectural panels, shelving, storage tank covers, building walls, table and countertops.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-ACG-14-Honeycomb-Aluminum-Commercial-Grade.php

Physical Properties	Metric	English	Comments
Density	0.0769 g/cc	0.00278 lb/in ³	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	4.34 MPa	630 psi	Bare
	4.55 MPa	660 psi	Stabilized
Compressive Modulus	1.02 GPa	148 ksi	Stabilized
Shear Modulus	0.262 GPa	38.0 ksi	Plate Shear, W Direction
	0.483 GPa	70.0 ksi	Plate Shear, L Direction
Shear Strength	1.48 MPa	215 psi	Plate Shear, W Direction
	2.52 MPa	365 psi	Plate Shear, L Direction

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