

Hexcel® HexWeb® CR-PAA™ 1/4-5052-0.0015 Phosphoric Acid Anodized Aluminum Honeycomb

Category : Metal , Metal Foam, Mesh, or Honeycomb , Nonferrous Metal , Aluminum Alloy , 5000 Series Aluminum Alloy

Material Notes:

Grade is designated as "Cell Size-Alloy-Foil Gauge." The life cycle of aluminum honeycomb sandwich structures in a given application can be directly related to the quality of the bond between the face sheets that carry bending loads and the honeycomb that carries the shear loads. The adhesive is the interface between the facing and the core in the same way that the oxide on the aluminum and the primer that has been applied to it is the interface between the honeycomb substrate material and the bonding adhesive. This interface is critical to the performance of honeycomb bonded assemblies. HexWeb® CR-PAA™ is designed for aircraft structures that are exposed to demanding environmental conditions. HexWeb® CR-PAA™ outperforms standard MIL-C-7438 core in salt spray and HexWeb® crack propagation tests.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-CR-PAA-14-5052-00015-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0545 g/cc	0.00197 lb/in³	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 1.65 MPa	>= 240 psi	Bare, min
	>= 1.72 MPa	>= 250 psi	Stabilized, min
	2.34 MPa	340 psi	Bare, typ
	2.55 MPa	370 psi	Stabilized, typ
Compressive Modulus	0.621 GPa	90.0 ksi	Stabilized, typ
Shear Modulus	0.165 GPa	24.0 ksi	Plate Shear, W Direction, typ
	0.345 GPa	50.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.724 MPa	>= 105 psi	Plate Shear, W Direction, min
	0.965 MPa	140 psi	Plate Shear, W Direction, typ
	>= 1.24 MPa	>= 180 psi	Plate Shear, L Direction, min
	1.59 MPa	230 psi	Plate Shear, L Direction, typ

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