

## Hexcel® HexWeb® CR-PAA™ 1/4-5056-0.002 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-14-5056-0002-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-CR-PAA-14-5056-0002-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php)

Physical Properties	Metric	English	Comments
Density	0.0689 g/cc	0.00249 lb/in³	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 3.03 MPa	>= 440 psi	Bare, min
	>= 3.21 MPa	>= 465 psi	Stabilized, min
	4.00 MPa	580 psi	Bare, typ
	4.27 MPa	620 psi	Stabilized, typ
Compressive Modulus	1.19 GPa	172 ksi	Stabilized, typ
Shear Modulus	0.186 GPa	27.0 ksi	Plate Shear, W Direction, typ
	0.462 GPa	67.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.31 MPa	>= 190 psi	Plate Shear, W Direction, min
	1.59 MPa	230 psi	Plate Shear, W Direction, typ
	>= 2.24 MPa	>= 325 psi	Plate Shear, L Direction, min
	2.76 MPa	400 psi	Plate Shear, L Direction, typ

## Contact Songhan Plastic Technology Co.,Ltd.

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