

## Hexcel® HexWeb® CR-PAA™ 1/8-5052-0.001 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-18-5052-0001-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-CR-PAA-18-5052-0001-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php)

Physical Properties	Metric	English	Comments
Density	0.0721 g/cc	0.00260 lb/in <sup>3</sup>	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 2.59 MPa	>= 375 psi	Bare, min
	>= 2.79 MPa	>= 405 psi	Stabilized, min
	3.79 MPa	550 psi	Bare, typ
	3.93 MPa	570 psi	Stabilized, typ
Compressive Modulus	1.03 GPa	150 ksi	Stabilized, typ
Shear Modulus	0.214 GPa	31.0 ksi	Plate Shear, W Direction, typ
	0.483 GPa	70.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.16 MPa	>= 168 psi	Plate Shear, W Direction, min
	1.52 MPa	220 psi	Plate Shear, W Direction, typ
	>= 1.97 MPa	>= 285 psi	Plate Shear, L Direction, min
	2.34 MPa	340 psi	Plate Shear, L Direction, typ

## Contact Songhan Plastic Technology Co.,Ltd.

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