

## Hexcel® HexWeb® CR-PAA™ 1/8-5052-0.0037 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-18-5052-00037-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-CR-PAA-18-5052-00037-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php)

Physical Properties	Metric	English	Comments
Density	0.192 g/cc	0.00694 lb/in <sup>3</sup>	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 14.5 MPa	>= 2100 psi	Bare, min
	>= 15.2 MPa	>= 2200 psi	Stabilized, min
	18.6 MPa	2700 psi	Bare, typ
	20.0 MPa	2900 psi	Stabilized, typ
Compressive Modulus	6.21 GPa	900 ksi	Stabilized, typ
Shear Strength	>= 6.89 MPa	>= 1000 psi	Plate Shear (Beam shear for 12.0 pcf products), W Direction, min
	>= 8.62 MPa	>= 1250 psi	Plate Shear (Beam shear for 12.0 pcf products), L Direction, min
	9.86 MPa	1430 psi	Plate Shear (Beam shear for 12.0 pcf products), W Direction, typ
	13.4 MPa	1940 psi	Plate Shear (Beam shear for 12.0 pcf products), L Direction, typ

## Contact Songhan Plastic Technology Co.,Ltd.

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