

Hexcel® HexWeb® CR-PAA™ 1/4-5052-0.0025 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-14-5052-00025-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0833 g/cc	0.00301 lb/in ³	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 3.45 MPa	>= 500 psi	Bare, min
	>= 3.52 MPa	>= 510 psi	Stabilized, min
	4.76 MPa	690 psi	Bare, typ
	5.24 MPa	760 psi	Stabilized, typ
Compressive Modulus	1.31 GPa	190 ksi	Stabilized, typ
Shear Modulus	0.244 GPa	35.4 ksi	Plate Shear, W Direction, typ
	0.565 GPa	82.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.38 MPa	>= 200 psi	Plate Shear, W Direction, min
	1.83 MPa	265 psi	Plate Shear, W Direction, typ
	>= 2.48 MPa	>= 360 psi	Plate Shear, L Direction, min
	2.83 MPa	410 psi	Plate Shear, L Direction, typ

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