

Hexcel® HexWeb® CR-PAA™ 3/8-5056-0.002 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. Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-CR-PAA-38-5056-0002-Phosphoric-Acid-Anodized-Aluminum-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0481 g/cc	0.00174 lb/in ³	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 1.65 MPa	>= 240 psi	Bare, min
	>= 1.79 MPa	>= 260 psi	Stabilized, min
	2.21 MPa	320 psi	Bare, typ
	2.34 MPa	340 psi	Stabilized, typ
Compressive Modulus	0.634 GPa	92.0 ksi	Stabilized, typ
Shear Modulus	0.131 GPa	19.0 ksi	Plate Shear, W Direction, typ
	0.296 GPa	43.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.689 MPa	>= 100 psi	Plate Shear, W Direction, min
	1.00 MPa	145 psi	Plate Shear, W Direction, typ
	>= 1.31 MPa	>= 190 psi	Plate Shear, L Direction, min
	1.69 MPa	245 psi	Plate Shear, L Direction, typ

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