

Aluminum Honeycomb Core 1/8" Cell, 3.1 PCF

An aerospace grade expanded core used in sandwich panel construction and features excellent corrosion resistance, high strength and rigidity to weight ratio, and high fatigue resistance.

5052 TYPICAL PROPERTIES

PROPERTY	VALUE
Thickness	+/- .005"
Cell Size	1/8"
Density	+/-10%
Material	5052 alloy
Manufacturer	Hexcel
Manufacturer Part	HexWeb® CR III 5052

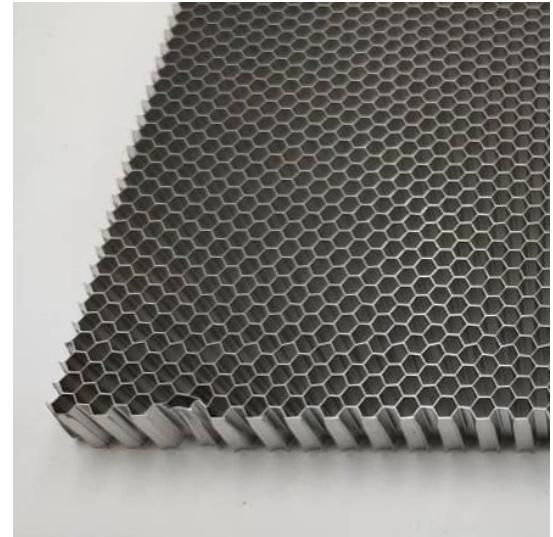
5056 TYPICAL PROPERTIES

PROPERTY	VALUE
Thickness	+/- .005"
Cell Size	1/8"
Density	3.1 PCF +/-10%
Material	5056 alloy
Manufacturer	Hexcel
Manufacturer Part	HexWeb® CR III-5056

5052 MECHANICAL PROPERTIES

PROPERTY	VALUE
Compressive Strength - Bare	285 psi (min 200 psi)
Compressive Strength - Stabilized	300 psi (min 215 psi)
Compressive Modulus - Stabilized	75 ksi
Crush Strength	130 psi
Plate Shear Strength - L Direction	210 psi (min 155 psi)
Plate Shear Modulus - L Direction	45 ksi
Plate Shear Strength - W Direction	130 psi (min 90 psi)
Plate Shear Modulus - W Direction	22 ksi

Test data obtained at 0.625 inch thickness.



FEATURES/BENEFITS

- Aerospace structural grade honeycomb
- Excellent corrosion resistance
- High strength and rigidity to weight ratio as a core
- Maintain corrosion protection at elevated temperatures
- Available in 5052 and 5056 alloys

USES INCLUDE

- Payload Panels
- Space Vehicles
- Bulkheads
- Floors

SPECIFICATIONS

- MIL-C7438



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5056 MECHANICAL PROPERTIES

PROPERTY	VALUE
Compressive Strength - Bare	320 psi (min 250 psi)
Compressive Strength - Stabilized	350 psi (min 260 psi)
Compressive Modulus - Stabilized	97 ksi
Crush Strength	170 psi
Plate Shear Strength - L Direction	250 psi (min 200 psi)
Plate Shear Modulus - L Direction	45 ksi
Plate Shear Strength - W Direction	155 psi (min 110 psi)
Plate Shear Modulus - W Direction	20 ksi

Test data obtained at 0.625 inch thickness.

FEATURES/BENEFITS

- Aerospace structural grade honeycomb
- Excellent corrosion resistance
- High strength and rigidity to weight ratio as a core
- Maintain corrosion protection at elevated temperatures
- Available in 5052 and 5056 alloys

USES INCLUDE

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- Bulkheads
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SPECIFICATIONS

- MIL-C7438



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Revision: A | Date: Dec 18,2024 | Page: 2 of 2

All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.

Aluminum Honeycomb Core 3/16" Cell, 5.7 PCF

An aerospace grade expanded core used in sandwich panel construction and features excellent corrosion resistance, high strength and rigidity to weight ratio, and high fatigue resistance.

5052 TYPICAL PROPERTIES

PROPERTY	VALUE
Thickness	+/- .005"
Cell Size	3/16"
Density	5.7 PCF +/-10%
Material	5052 alloy
Manufacturer	Hexcel
Manufacturer Part	HexWeb® CR III 5052

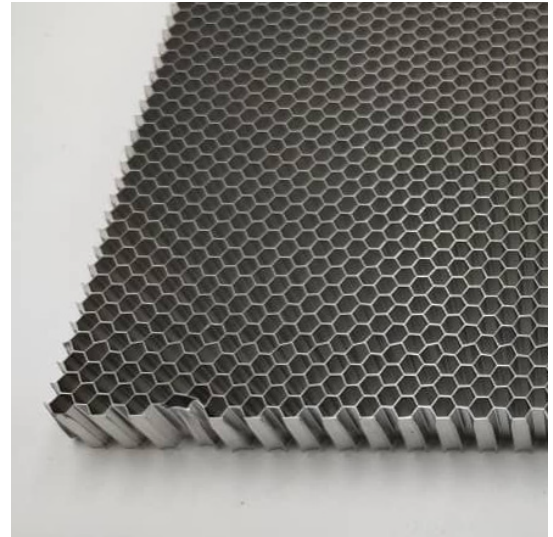
5056 TYPICAL PROPERTIES

PROPERTY	VALUE
Thickness	+/- .005"
Cell Size	3/16"
Density	5.7 PCF +/-10%
Material	5056 alloy
Manufacturer	Hexcel
Manufacturer Part	HexWeb® CR III

5052 MECHANICAL PROPERTIES

PROPERTY	VALUE
Compressive Strength - Bare	820 psi (min 560psi)
Compressive Strength - Stabilized	860 psi (min 600psi)
Compressive Modulus - Stabilized	220 ksi
Crush Strength	390 psi
Plate Shear Strength - L Direction	460 psi (min 410 psi)
Plate Shear Modulus - L Direction	90 ksi
Plate Shear Strength - W Direction	300 psi (min 244 psi)
Plate Shear Modulus - W Direction	38.5 ksi

Test data obtained at 0.625 inch thickness.



FEATURES/BENEFITS

- Aerospace structural grade honeycomb
- Excellent corrosion resistance
- High strength and rigidity to weight ratio as a core
- Maintain corrosion protection at elevated temperatures
- Available in 5052 and 5056 alloys

USES INCLUDE

- Payload Panels
- Space Vehicles
- Bulkheads
- Floors

SPECIFICATIONS

- MIL-C7438

Aluminum Honeycomb Core 3/16" Cell, 5.7 PCF

An aerospace grade expanded core used in sandwich panel construction and features excellent corrosion resistance, high strength and rigidity to weight ratio, and high fatigue resistance.

5056 MECHANICAL PROPERTIES

PROPERTY	VALUE
Compressive Strength - Bare	920 psi (min 685 psi)
Compressive Strength - Stabilized	1000 psi (min 735 psi)
Compressive Modulus - Stabilized	270 ksi
Crush Strength	480 psi
Plate Shear Strength - L Direction	565 psi (min 480 psi)
Plate Shear Modulus - L Direction	94 ksi
Plate Shear Strength - W Direction	330 psi (min 280 psi)
Plate Shear Modulus - W Direction	36 ksi

Test data obtained at 0.625 inch thickness.

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