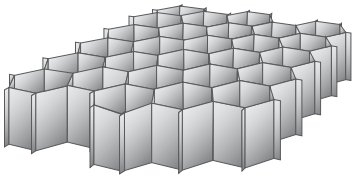


PAMG-XR1 5056 Aluminum Honeycomb



Description:

PAMG-XR1 5056 aerospace grade aluminum honeycomb is a lightweight core material which offers superior strength and corrosion resistance over 5052 and 3003 aluminum honeycomb. PAMG-XR1 5056 honeycomb is made from 5056 aluminum alloy foil and meets all the requirements of AMS C7438 Rev A.

Applications:

PAMG-XR1 5056 honeycomb uses include aircraft floors, aircraft leading and trailing edges, missile wings, fan casings, fuel cells, fuselage components, helicopter rotor blades and navy bulkhead joiner panels. PAMG-XR1 5056 honeycomb is suitable for applications where materials conforming to AMS C7438 Rev A are required.

Features:

- Elevated use temperatures
- High thermal conductivity
- Flame resistant
- Excellent moisture and corrosion resistance
- Fungi resistant
- Low weight / High strength
- Long shelf life. The mechanical properties referenced are maintained for 15 years minimum if not exposed to moisture, weather or any normal hazard.

Availability:

PAMG-XR1 5056 honeycomb is available in four forms: unexpanded blocks, unexpanded slices, untrimmed expanded sheets and cut to size expanded sheets. It is also available with or without cell perforations to facilitate cell venting for certain applications.

Cell Sizes:	1/8" - 3/8"
Densities:	1.0 pcf - 8.1 pcf
Sheet "Ribbon" (L):	48" typical - 72" max
Sheet "Transverse" (W):	96" typical - 200" max
Sheet Thickness (T):	20"/34" max
Tolerances:	Length: + 6", - 0"
	Width: + 6", - 0"
	Thickness: ± .005" (under 4" thick) ± .062" (over 4" thick)
	Density: ± 10%
	Cell Size: ± 10%

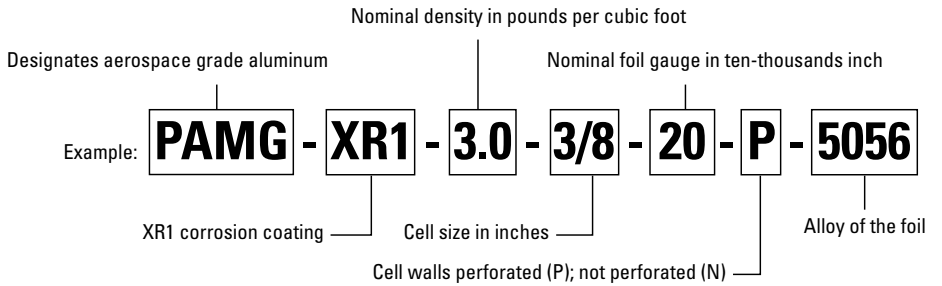
NOTE: Special dimensions, sizes, tolerances, CNC machining and die cut to size can be provided upon request.

Corrosion Resistance:

The chromated XR1 coating offers excellent protection for honeycomb cores exposed to corrosive environments, meeting the requirements of AMS C7438 Rev A, CL2.

PAMG-XR1 5056 honeycomb is specified as follows:

Trade Name - Corrosion Coating - Density - Cell Size - Foil Gauge - Perforation - Alloy



PAMG-XR1 5056 Mechanical Properties

			Bare Compressive - typical*		Plate Shear - typical*			
CELL SIZE inch	NOMINAL FOIL GAUGE inch	NOMINAL DENSITY PCF	STRENGTH PSI	MODULUS KSI	STRENGTH PSI		MODULUS KSI	
					"L"	"W"	"L"	"W"
1/8	.0007	3.1	340	97	250	155	45	20
1/8	.001	4.5	630	185	425	255	70	38
1/8	.0015	6.1	1000	295	640	370	102	38
1/8	.002	8.1	1520	435	900	520	143	51
3/16	.0007	2.0	155	45	140	85	27	13
3/16	.001	3.1	340	97	255	155	45	20
3/16	.0015	4.4	600	180	410	245	68	27
3/16	.002	5.7	910	270	585	340	94	36
1/4	.0007	1.6	100	30	90	60	20	12
1/4	.001	2.3	205	58	170	105	32	15
1/4	.0015	3.4	395	115	290	175	50	22
1/4	.002	4.3	580	172	400	240	67	27
1/4	.0025	5.2	790	230	500	300	84	32
3/8	.0007	1.0	35	15	60	35	15	9
3/8	.001	1.6	100	30	90	60	20	12
3/8	.0015	2.3	205	58	170	105	32	15
3/8	.002	3.0	320	92	245	145	43	19

Tested at 0.625" per AMS C7438 Rev A at room temperature.

*Minimum values may be up to 25% lower than typical values.



Plascore, Inc., employs a quality management system that is Nadcap, AS9100, ISO 9001 and ISO 14001 certified.

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