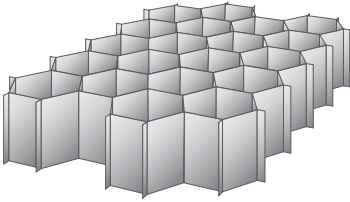


PAMG-XR1 5052 Aluminum Honeycomb



Description:

PAMG-XR1 5052 aerospace grade aluminum honeycomb is a lightweight core material which offers superior strength and corrosion resistance over commercial grade aluminum honeycomb. PAMG-XR1 5052 honeycomb is made from 5052 aluminum alloy foil and meets all the requirements of MIL-C-7438.

Applications:

PAMG-XR1 5052 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, energy absorption, air/light directionalization and EMI/RFI shielding. PAMG-XR1 5052 honeycomb is suitable for applications where materials conforming to MIL-C-7438 are required.

Features:

- Elevated use temperatures
- High thermal conductivity
- Flame resistant
- Excellent moisture and corrosion resistance
- Fungi resistant
- Low weight / High strength

Availability:

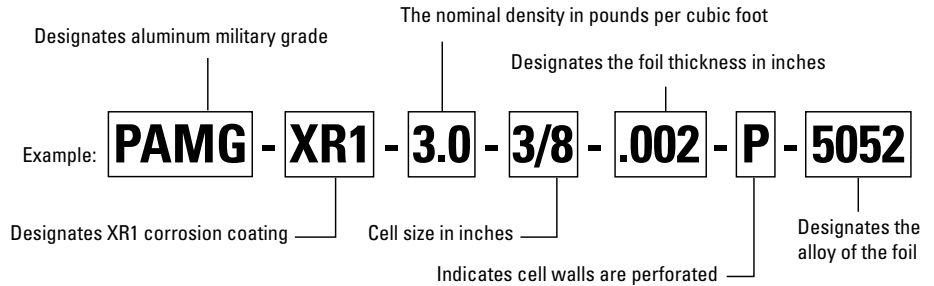
PAMG-XR1 5052 honeycomb is available in four forms: unexpanded blocks, unexpanded slices, untrimmed expanded sheets and cut to size expanded sheets. It is also available with or without cell perforations to facilitate cell venting for certain applications.

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

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

PAMG-XR1 5052 aluminum honeycomb is specified as follows:

Material - Density - Cell Size - Foil Thickness - Perforated - Alloy



PAMG-XR1 5052 Mechanical Properties

PLASCORE® Honeycomb Designation			Bare Compressive		Plate Shear			
CELL SIZE	FOIL GAUGE	NOMINAL DENSITY PCF	STRENGTH PSI	MODULUS KSI	STRENGTH PSI		MODULUS KSI	
					"L"	"W"	"L"	"W"
1/8	.0007	3.1	270	75	210	130	45	22
1/8	.001	4.5	520	150	340	220	70	31
1/8	.0015	6.1	870	240	505	320	98	41
1/8	.002	8.1	1400	350	725	455	135	54
3/16	.001	3.1	270	75	210	130	45	22
3/16	.0015	4.4	500	145	330	215	68	30
3/16	.002	5.7	770	220	460	300	90	38
3/16	.0025	6.9	1080	285	590	375	114	46
3/16	.003	8.1	1400	350	725	455	135	54
1/4	.0007	1.6	85	20	85	50	21	11
1/4	.001	2.3	165	45	140	85	32	16
1/4	.0015	3.4	320	90	235	150	50	24
1/4	.002	4.3	480	140	320	210	66	29
1/4	.0025	5.2	670	190	410	265	82	35
1/4	.003	6.0	850	235	495	315	96	40
1/4	.004	7.9	1360	340	700	440	130	52
3/8	.0007	1.0	30	10	45	30	12	7
3/8	.0015	2.3	165	45	140	85	32	16
3/8	.002	3.0	260	70	200	125	43	21
3/8	.0025	3.7	370	105	260	170	55	26
3/8	.003	4.2	460	135	310	200	65	29
3/8	.004	5.4	720	200	430	280	86	36

Tested at 0.625" per MIL-C-7438 at room temperature.

Plascore, Inc., employs a quality management system that is AS/EN/JISQ 9100, ISO 9001:2008 and ISO 14001:2004 certified.

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