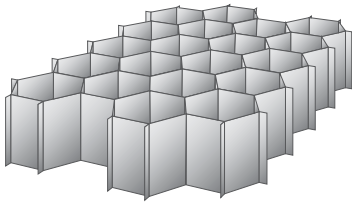


PAMG-PA3 5052 Aluminum Honeycomb



Description:

PAMG-PA3 5052 aerospace grade aluminum honeycomb is a phosphoric acid anodized lightweight core material which offers superior corrosion resistance and node bond strength over traditional organo-metallic coated aluminum honeycomb. PAMG-PA3 5052 honeycomb is made from 5052 aluminum alloy foil and meets all the requirements of AMS C7438 Rev A Class 1.

Applications:

PAMG-PA3 5052 honeycomb uses include aircraft nacelles, aircraft leading and trailing edges, launcher structures, fan casings, fuel cells, fuselage components, and satellite structures. PAMG-PA3 5052 honeycomb is suitable for applications where materials conforming to AMS C7438 Rev A Class 1 are required.

Features:

- Elevated use temperatures
- High thermal conductivity
- Flame resistant
- Excellent moisture and corrosion resistance
- Fungi resistant
- Low weight / High strength
- Improved node bond strength for increased formability

Availability:

PAMG-PA3 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. Plascore PAMG-PA3 honeycomb is currently not available for 0.0007" foil.

Cell Sizes:	1/8" - 3/8"
Densities:	2.3 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%

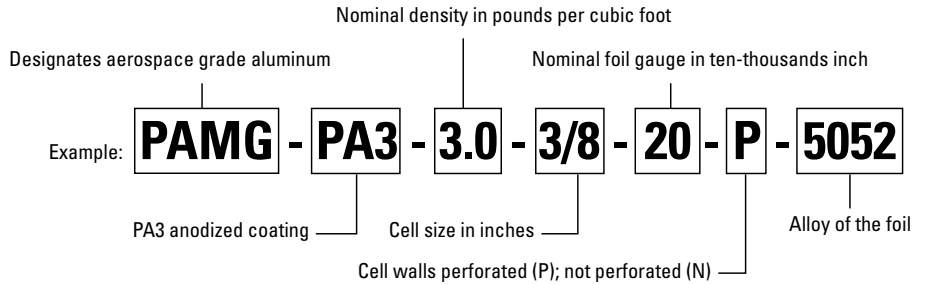
NOTE: Special dimensions, sizes, tolerances, CNC machining and die cut to size can be provided upon request.

Corrosion Resistance:

The anodized PA3 coating offers excellent protection for honeycomb cores exposed to corrosive environments, meeting the requirements of AMS C7438 Rev A, CL1.

PAMG-PA3 5052 aluminum honeycomb is specified as follows:

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



PAMG-PA3 5052 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	.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	.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	.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 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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Corporate Headquarters

Plascore Incorporated
 615 N. Fairview St.
 Zeeland, MI 49464-0170
 Phone (616) 772-1220
 Toll Free (800) 630-9257
 Fax (616) 772-1289
 Email sales@plascore.com
 Web www.plascore.com

Europe

Plascore GmbH&CoKG
 Feldborn 6
 D-55444 Waldlaubersheim
 Germany
 Phone +49(0) 6707-9143 0
 Fax +49(0) 6707-9143 40
 Email sales.europe@plascore.de
 Web www.plascore.de