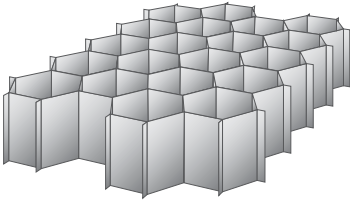


PAMG-XR1 5052 Aluminum Honeycomb



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 AMS C7438 Rev A.

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 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 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 - 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%

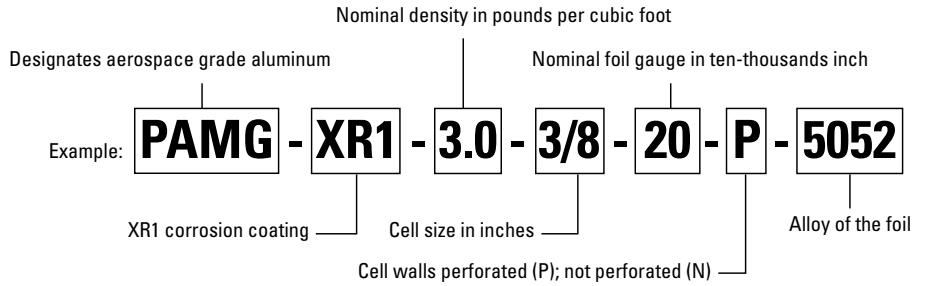
NOTE: Special dimensions, sizes, tolerances, CNC machining and die cut to size can be provided upon request.

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 5052 aluminum honeycomb is specified as follows:

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



PAMG-XR1 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	.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 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.

IMPORTANT NOTICE: The information contained in these materials regarding Plascore's products, processes, or equipment, is intended to be up to date, accurate, and complete. However, Plascore cannot warrant that this is always the case. Accordingly, it is a purchaser's or user's responsibility to perform sufficient testing and evaluation to determine the suitability of Plascore's products for a particular purpose. Information in these materials and product specifications does not constitute an offer to sell. Your submission of an order to Plascore constitutes an offer to purchase which, if accepted by Plascore, shall be subject to Plascore's terms and conditions of sale. PLASCORE MAKES NO WARRANTIES OF ANY KIND REGARDING THESE MATERIALS OR INFORMATION, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Plascore owns and shall retain all worldwide rights in its intellectual property, and any other trademarks used in these materials are the property of their respective owners. The information in these materials shall not be construed as an inducement, permission, or recommendation to infringe any patent or other intellectual property rights of any third parties.



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.com
 Web www.plascore.de