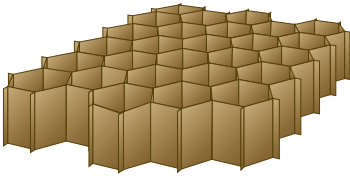


# PK2 Kevlar® N636 Para-Aramid Fiber Honeycomb



## Description:

---

PK2 Kevlar® N636 para-aramid fiber honeycomb is an extremely lightweight, high strength, non-metallic honeycomb manufactured with para-aramid fiber paper (DuPont Kevlar® N636 or equivalent) impregnated with a heat resistant phenolic resin. This core material exhibits improved performance characteristics over Nomex® and Korex® in the areas of weight, strength, stiffness and fatigue.

## Applications:

---

PK2 honeycomb is a high performance non-metallic core which can replace fiberglass and Nomex® honeycomb core materials to achieve significant weight reductions without sacrificing performance in most applications. PK2 honeycomb uses include boat decks, aircraft galleys, flooring, partitions, aircraft leading and trailing edges, radomes, flaps, access panels and doors.

## Features:

---

- Up to 40% higher properties than comparable density Nomex® honeycomb
- Extremely high strength to weight ratio
- Excellent thermal and moisture stability
- Improved shear strength and modulus
- Conforms to stringent smoke, toxicity and flammability standards
- High toughness

## Availability:

---

PK2 honeycomb is available in sheets, blocks or cut to size pieces in both regular hexagonal and over expanded (OV) cell configurations. Selected densities available in high shear (HS) configuration for higher stiffness.

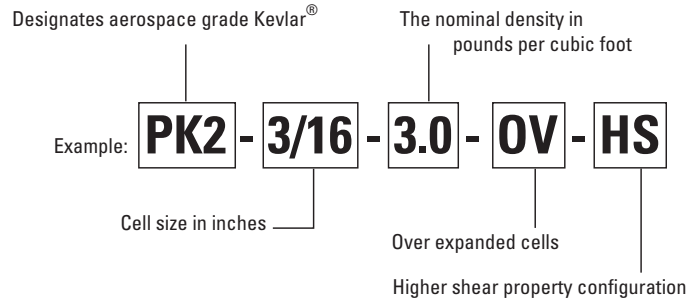
<b>Cell Sizes:</b>	1/8" - 3/16"
<b>Densities:</b>	2.0 pcf - 6.0 pcf
<b>Sheet "Ribbon" (L):</b>	48" typical
<b>Sheet "Transverse" (W):</b>	96" typical
<b>Tolerances:</b>	Length: + 3", - 0" (36" for OV) Width: + 6", - 0" Thickness: ± .006" (under 2" thick) Density: ± 10% Cell Size: ± 10%

**NOTE:** Special dimensions, sizes, tolerances and specifications can be provided upon request.

# PK2 Kevlar® honeycomb is specified as follows:

## Material - Cell Size - Density - Cell Configuration

**Note:** 1/8" OV core can be over expanded only to a maximum of 20% over nominal cell size.  
 ©Kevlar and ©Nomex are registered trademarks of E.I. DuPont de Nemours, Wilmington, Delaware.



PK2 Mechanical Properties*												
PLASCORE® Honeycomb Designation	DENSITY		COMPRESSIVE (BARE) STRENGTH		PLATE SHEAR "L" DIRECTION				PLATE SHEAR "W" DIRECTION			
					STRENGTH		MODULUS		STRENGTH		MODULUS	
	lb/ft³	kg/m³	psi	MPa	psi	MPa	ksi	GPa	psi	MPa	ksi	GPa
PK2-1/8-2.5	2.5	40.0	225	1.55	190	1.31	15.0	0.104	115	0.79	8.1	0.056
PK2-1/8-3.0	3.0	48.1	315	2.17	235	1.62	15.6	0.107	140	0.97	9.0	0.062
PK2-1/8-3.0 HS	3.0	48.1	305	2.10	270	1.86	21.0	0.145	160	1.10	12.7	0.088
PK2-1/8-4.5	4.5	72.1	600	4.14	345	2.38	17.2	0.118	215	1.48	9.6	0.066
PK2-1/8-4.5 HS	4.5	72.1	610	4.21	410	2.82	22.3	0.153	235	1.62	13.3	0.092
PK2-1/8-6.0	6.0	96.1	925	6.38	465	3.21	18.7	0.129	290	2.00	10.9	0.075
PK2-1/8-6.0 HS	6.0	96.1	1000	6.89	560	3.86	23.6	0.162	315	2.17	14.6	0.100
PK2-5/32-2.5	2.5	40.0	215	1.48	190	1.31	12.7	0.088	130	0.90	8.7	0.060
PK2-3/16-2.0	2.0	32.0	150	1.03	145	1.00	10.2	0.070	90	0.62	6.0	0.042
PK2-3/16-3.0	3.0	48.1	320	2.21	230	1.58	15.2	0.105	160	1.10	9.0	0.062
PK2-1/8-2.5-OV	2.5	40.0	220	1.52	180	1.24	13.0	0.090	135	0.93	10.0	0.069
PK2-1/8-3/0-OV	3.0	48.1	310	2.14	210	1.45	14.3	0.099	130	0.90	11.0	0.076

\* Preliminary or estimated values based on limited testing per MIL-STD-401 at room temperature.

Plascore, Inc., employs a quality management system that is AS/EN/JISQ 9100 and ISO 9001:2008 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 13  
 Fax +49(0) 6707-9143 40  
 Email sales.europe@plascore.com  
 Web www.plascore.de