

Changzhou Jlon Composite Co.,Ltd



Nomex Aramid Kevlar Honeycomb

Product Description of Nomex Aramid Kevlar Honeycomb

Aramid Kevlar Honeycomb is the standard for lightweight non-metallic composite construction. Commercial Grade Kevlar honeycomb made with aramid fiber paper (aramid or equivalent) coated with heat resistant phenolic resin offers excellent resiliency, low density, lower pricing and high strength to weight ratio.

Ultra lightweight, aramid honeycomb used in sandwich constructions. Unlike metals, nomex honeycomb provides galvanic corrosion resistance (also against corrosion of metal inserts) and allows the use of carbon skins. Other definite advantages are low thermal expansion and conductivity and high heat and fire resistance. Its superior mechanical properties and high dimensional stability under heat and moisture make it suitable for a large variety of high-end applications.

Product Features of Nomex Aramid Kevlar Honeycomb

- High strength to weight ratio
- Corrosion resistant
- Excellent dielectric properties
- Thermally insulating
- High toughness
- Excellent creep and fatigue performance
- Good thermal stability
- Over collapsed cell configuration suitable for forming simple curves
- Compatible with most adhesives used in sandwich composites

Properties of Nomex Aramid Kevlar Honeycomb

Cell size		Density		Compression Strength	Shear Strength	
mm	inch	Lb/ft3	KG/m3	Mpa	L direction-Mpa	W direction-Mpa
3.2	1/8	3.0	48	1.9	1.16	0.62
		4.0	64	3.1	1.48	0.82
		5.0	80	4.7	1.95	1.05
		6.0	96	6.6	2.45	1.42
		8.0	128	11.3	2.95	1.73
		9.0	144	13.2	3.05	1.9
4.8	3/16	2.0	32	0.9	0.58	0.36
		3.0	48	2.6	0.98	0.56
		4.0	64	3.4	1.7	0.92
		5.0	80	6	1.95	1.1
		6.0	96	7.3	2.26	1.32
		7.6	123	9.3	3.4	1.86
6.4	1/4	1.5	24	0.54	0.34	0.18
		2.0	32	0.8	0.54	0.3
		3.0	48	2.05	1	0.56
		4.0	64	3.4	1.54	0.79
9.6	3/8	1.5	24	0.52	0.32	0.16
		2.0	32	0.68	0.56	0.29
		3.0	48	9.6	1.15	0.66

Application of Nomex Aramid Kevlar Honeycomb

Suitable for industrial or commercial use, such as Aircraft, Spacecraft, High speed vessel, Train, Radar etc.

Navy bulkhead joiner panels, helicopter rotor blades, fuel tanks, antennas, radar, flooring, boat hulls, auto racing bodies, train car panels, ship panels, ground transportation structures, ground antennas and special purpose panels.