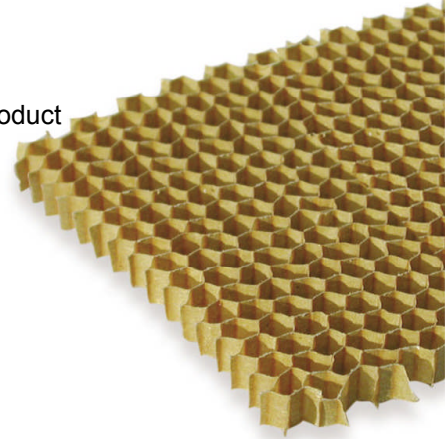


Aramid Fibre Honeycomb Core

Aramid Fibre honeycomb core is an extremely lightweight, high strength and non metallic product manufactured with aramid fiber paper impregnated with a heat resistant phenolic resin. This core material offers the unique combination of properties necessary for superior electrical insulation. Aramid paper is used in boat hulls, auto racing bodies and military shelters. Furthermore it's very appreciated by the aeronautical, train and shipyard industry.



The client can choose between industrial and aeronautical grade.

| Honeycomb core's properties | | | | | |
|-----------------------------|--------------|---------------------------|----------------------|-------------------|-------------------|
| Designation | | | Compression Strength | L-Shear | W-Shear |
| | Cell size mm | Density kg/m ³ | N/mm ² | N/mm ² | N/mm ² |
| Hexagonal | 3.2 | 48 | 1.90 | 1.16 | 0.62 |
| Hexagonal | 3.2 | 64 | 3.10 | 1.48 | 0.82 |
| Hexagonal | 3.2 | 80 | 4.70 | 1.95 | 1.05 |
| Hexagonal | 3.2 | 96 | 6.60 | 2.45 | 1.42 |
| Hexagonal | 3.2 | 128 | 11.30 | 2.95 | 1.78 |
| Hexagonal | 3.2 | 144 | 13.20 | 3.05 | 1.90 |
| | | | | | |
| Hexagonal | 4.0 | 29 | 0.60 | 0.45 | 0.26 |
| Hexagonal | 4.0 | 80 | 5.10 | 1.90 | 0.98 |
| | | | | | |
| Hexagonal | 4.8 | 32 | 0.90 | 0.58 | 0.36 |
| Hexagonal | 4.8 | 48 | 2.60 | 0.98 | 0.56 |
| Hexagonal | 4.8 | 64 | 3.40 | 1.70 | 0.92 |
| Hexagonal | 4.8 | 80 | 6.00 | 1.95 | 1.10 |
| Hexagonal | 4.8 | 96 | 7.30 | 2.26 | 1.32 |
| | | | | | |
| Hexagonal | 6.4 | 24 | 0.54 | 0.34 | 0.18 |
| Hexagonal | 6.4 | 32 | 0.80 | 0.54 | 0.30 |
| Hexagonal | 6.4 | 48 | 2.05 | 1.00 | 0.56 |
| Hexagonal | 6.4 | 64 | 3.40 | 1.54 | 0.79 |
| | | | | | |
| Hexagonal | 9.6 | 24 | 0.52 | 0.32 | 0.16 |
| Hexagonal | 9.6 | 32 | 0.68 | 0.56 | 0.29 |
| Hexagonal | 9.6 | 48 | 1.80 | 1.15 | 0.66 |
| | | | | | |
| Over expanded | 4.8 | 29 | 0.60 | 0.31 | 0.32 |
| Over expanded | 4.8 | 48 | 2.30 | 0.60 | 0.72 |
| Over expanded | 4.8 | 64 | 3.80 | 0.72 | 0.90 |
| Over expanded | 4.8 | 72 | 4.00 | 0.75 | 0.92 |
| Over expanded | 4.8 | 80 | 5.30 | 0.88 | 1.17 |
| Over expanded | 4.8 | 96 | 6.70 | 0.92 | 1.28 |
| | | | | | |
| Over expanded | 6.4 | 48 | 2.30 | 0.60 | 0.72 |
| Over expanded | 6.4 | 64 | 3.20 | 0.72 | 0.90 |

Standard dimensions
(other dimensions available on request)

