

Jiujiang Leadcomp Co., Ltd.

Aramid paper

Introduction

Aramid paper (aromatic polyamide fiber paper) is a high-performance special material made from aramid chopped fibers and fibrils through wet papermaking and hot-pressing. Its core advantages include high temperature resistance, inherent flame retardancy, high strength, excellent insulation, and low moisture absorption. It is mainly divided into two types: meta-aramid and para-aramid, and is widely used in electrical insulation, aerospace, rail transit and other fields.



Advantage

- ☒ **High Temperature Resistance & Stability**
- ☒ **Intrinsic Permanent Flame Retardancy**
- ☒ **Outstanding Mechanical Properties**
- ☒ **Superior Electrical Insulation**
- ☒ **Environmental Corrosion Resistance**

Specification

Name	Thickness	Weight	Mechanical Properties								Electrical Properties		
			Tensile strength		Elongation		Tear strength		Thermal Shrinkage (250℃)		Dielectric Strength	Dk	DF
			MD	TD	MD	TD	MD	TD	MD	TD			
Unit	mm	g/m ²	N/cm		%		N		%		Kv/mm	50HZ	50HZ

PT-233 A	0.04	25	18	5	4.1	3	0.45	0.5	2.0	2.0	12	1.05-2.5	0.01-0.02
	0.05	33.5	35	10	4.1	3	0.45	0.4	2.0	2.0	12	1.05-2.5	0.01-0.02
	0.08	62.4	55	22	7.5	4.5	0.7	0.7	2.0	2.0	11	2.0-3.5	0.01-0.02
	0.13	115	100	95	11	13	2	2.1	2.0	2.0	9.8	2.0-3.5	0.01-0.02
PT-633 A	0.05	41	32	8	4.5	2.5	0.7	0.5	2.0	2.0	15	1.05-2.0	0.001-0.01
	0.08	64	48	35	7.4	6.0	1.5	1.5	2.0	2.0	16	1.05-2.0	0.001-0.01
	0.13	118	88	65	8.0	8.0	2.5	3.2	2.0	2.0	15	1.05-2.5	0.001-0.01
	0.18	171	130	100	9.0	9.0	4.0	4.5	2.0	2.0	20	1.05-2.5	0.01-0.02
	0.25	226	130	100	9.0	9.0	7.0	8.0	2.0	2.0	20	2.0-3.5	0.01-0.02
	0.3	293	210	180	10.0	10.0	9.0	9.0	2.0	2.0	22	2.0-3.5	0.01-0.02
	0.38	350	220	190	10.0	10.0	11.0	12.0	2.0	2.0	22	2.0-3.5	0.01-0.02
	0.51	502	300	300	14.0	15.0	>16.0	>16.0	2.0	2.0	18	3.0-4.0	0.01-0.02
	0.76	753	550	500	17.0	18.0	>16.0	>16.0	2.0	2.0	15	3.0-4.0	0.01-0.02
PT-633	0.05	41	39	9	6.0	3.0	0.8	0.8	2.0	2.0	17	1.5-2.5	0.001-0.01
	0.08	64	60	18	8.0	4.0	1.0	1.0	2.0	2.0	18	1.5-2.5	0.001-0.01
	0.13	118	130	45	8.0	6.0	2.3	2.0	2.0	2.0	19	2.0-3.0	0.01-0.02
	0.18	175	200	75	15.0	8.5	3.5	3.2	2.0	2.0	20	2.0-3.0	0.01-0.02
	0.22	230.3	210	100	13.0	13.0	4.5	4.5	2.0	2.0	20	2.0-3.0	0.01-0.02
	0.25	244	260	120	10.0	10.0	4.7	5.5	2.0	2.0	24	2.0-3.0	0.01-0.02
	0.3	302	400	130	16.0	9.0	7.5	8.0	2.0	2.0	22	2.5-3.5	0.01-0.02
	0.38	380	500	180	18.0	9.5	10.0	10.0	2.0	2.0	22	2.5-3.5	0.01-0.02
PT-344	0.05	30	≥4.4	≥3.4	/	/	/	/	/	/	8	1.45	0.01-0.02
	0.08	54	≥8.7	≥7.7	/	/	/	/	/	/	8	1.48	0.01-0.02
	0.10	68	≥12.6	≥11.6	/	/	/	/	/	/	7	1.21	0.01-0.02

Application Fields

1. Electrical Insulation Industry

Dry-type transformers, high & low voltage motors, generators, reactors, charging piles and new energy power batteries, serving as slot insulation, turn-to-turn insulation, interlayer insulation and separating gaskets.



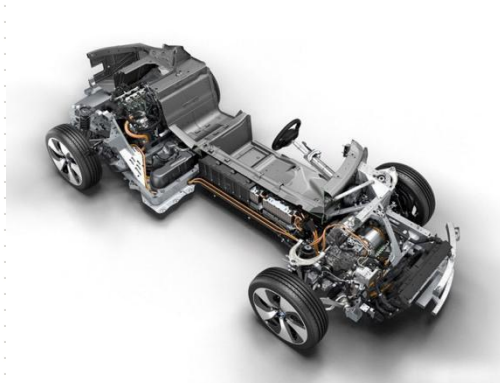
Transformer



Motor



Battery



New Energy Vehicles

2. Aerospace

Honeycomb sandwich cores manufactured from para-aramid paper are applied to aircraft interiors and lightweight fuselage structural components, delivering weight reduction while balancing flame retardancy and mechanical strength.



Honeycomb Core Material



Airplane

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