

Non-woven Fabric for Electrical Purpose

Type

■ 7030 Polyester fiber non-woven fabric for electric purpose

7030 Electrical Purpose non-woven fabric is made from 100% short polyester fiber, is produced by advanced thermobonding calender. It shows high-resistance, excellent impregnating properties and dielectrical properties. It is suitable for cable wrapping tape, electrical laminated products. It can be used in producing DMD、DM and DMDM combined materials with polyester film, and other combined materials.



The nominal thickness of 0.03mm,0.05mm,0.07mm,0.10mm,0.13mm and 0.15mm together with nominal width of 1020mm is available. what's more ,the maximum thickness of 0.25mm together with maximum width of 2100mm can be even provided upon agreement.

■ D711

D711 Easy-impregnated polyester fiber non-woven fabric for electric purposes

D711 Easy-impregnated polyester fiber non-woven fabric for electric purposes, which is made from sort Polyester fibre with high strength and low extension as its raw materials is obtained by aerodynamic web-forming and thermo-bonding calender.

It shows uniform porosity, low apparent density, It offers good impregnating properties. It is suitable for basic materials of laminated products, layer insulation in high-pressure coils of dry-type electric transformers, wrapping insulating and liner insulation in coils of electrical machines and appliances.

Main technical requirements

■ 7030

No.	Properties		Units	Values					
1	Nominal thickness		mm	0.03	0.05	0.07	0.10	0.13	0.15
2	Thickness tolerance	Mean	mm	±0.010		±0.010	±0.015	±0.020	±0.025
		One or two		±0.020		±0.020	±0.030	±0.040	±0.050
3	Grammage		g/m ²	18	28	40	60	78	90
4	Grammage CV		%	≤10					
5	Apparent density		g/cm ³	0.5±0.10	0.60±0.10				
6	Tensile strength	Lengthwise	N/50mm	≥12	≥30	≥50	≥75	≥150	≥200
		Crosswise		≥10	≥25	≥40	≥65	≥120	≥160
7	Breaking elongation	Lengthwise	%	≥4	≥8	≥10		≥12	
		Crosswise		≥4	≥8	≥10		≥12	
8	Heat shrinkage 150±2°C 1h	Lengthwise	%	≤5	≤3				
		Crosswise		≤5	≤3				
standard			ZBK15019-89						

■ D711

No.	Properties		Units	Values				
1	Grammage		g/m ²	35	35	105	150	
2	Nominal thickness		mm	0.07	0.12	0.23	0.32	
3	Thickness tolerance	Mean	mm	±0.015	±0.020	±0.030	±0.050	
		One or two		±0.020	±0.030	±0.050	±0.070	
4	Grammage CV		%	≤10				
5	Apparent density		g/cm ³	0.5±0.08		0.45±0.10		
6	Tensile strength	Lengthwise	N/50mm	≥25	≥30	≥35	≥60	
		Crosswise		≥20	≥25	≥30	≥50	
7	Breaking elongation	Lengthwise	%	≥5		≥4		
		Crosswise		≥5		≥4		
8	Heat shrinkage 150±2°C 1h		%	≤3				
9	Solvent absorption(toluene)		g/m ²	≥40	≥80	≥150	≥200	
10	Height of solvent absorption (toluene)	Lengthwise	mm	30s	≥8	≥15	≥25	≥30
				60s	≥10	≥20	≥35	≥40
				300s	≥12	≥25	≥45	≥60
		Crosswise		30s	≥5	≥10	≥20	≥25
				60s	≥8	≥15	≥30	≥35
				300s	≥10	≥20	≥40	≥55
standard			Q/DJ2-61 ₂ -1994					

Packaging and storage

The product is packaged with internal plastic film and external polypropylene bales. Each role of 7030 weighs 100 kg, of D711 weighs 80kg.

No-woven fabric should be stored in clean and dry warehouse at room temperature of lower than 40°C, away from fire and sunlight. The storage life is one year.