NMN (50um)

Technical Data Sheet

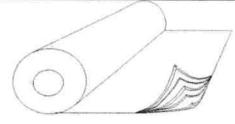
ECM

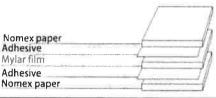
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Structure and Features

- NMN is a three-layer soft composite insulating material, which is composed of two sides of NOMEX paper and polyester film bonded by adhesive.
- Has good flexibility, excellent mechanical strength, dielectric properties, tear strength and varnish absorption capacity.
- Insulation class: Class F





Data S	heet				and analy						
Item		Unit	Requirement								
Nominal thickness		mm	0.15	0.17	0.19	0.22	0.24	0,26	0.31	0.37	0.41
Thickness tolerance		mm	±0.022			±0.024	±0.026	±0.031	±0.037	±0.041	
Grammage		g/m ²	150±18	170±20	200±24	230±27	270±32	305±36	360±43	450±54	515±61
Film nominal thickness		um	36	50	75	100	125	150	188	250	300
Tensile strength	MD no bending	N/10mm	≥150	≥150	≥170	≥190	≥220	≥240	≥270	≥330	≥370
	MD after bending		≥90	≥90	≥105	≥120	≥150	≥180	≥200	≥300	≥330
	TD no bending		≥80	≥90	≥100	≥110	≥130	≥170	≥200	≥250	≥300
	TD after bending		≥70	≥70	≥90	≥100	≥120	≥150	≥150	≥200	≥230
Elongation (%)	MD	%	≥15				≥ 3				
	TD]	≥20				⊲≥10				
Breakdown voltage	No bending		≥7	≥8	≥11	≥12	≥14	-≥16	≥19	≥23	≥25
	After bending	KV	≥6	≥7	≥9	≥10	≥12	≥14	≥15	≥18	≥19
Delamination		-	No Delamination, no bubble or other defects								
Heat affected (180±2°C) 10min			No Delamination, no bubble, no adhesive flow								
Long-term heat resistance (temperature index TI)			≥155								
Weight and area conversion		m²/Kg	7.23	6.33	5,18	4.39	3.8	3.36	2.85	2.28	1.97

Application

• Suitable for inter-slot insulation, liner insulation and turn-to-turn insulation of motors and special motors, and can also be used as interlayer and interval insulation of dry-type transformers and reactors.

Use reference

- During slitting and use, edge gaps and cracks should be prevented to avoid tearing during operation and to avoid surface scratches, oil and dust pollution.
- Store in an environment below 40°C, keep clean and dry, away from heat sources, and avoid direct sunlight.
- The storage period is one year. If it exceeds the storage period, it can still be used if it passes the test according to the technical requirements.