

Electrical Grade Insulation Kraft Paper

Insulation kraft paper in a thickness range of 1.5 mil to 10 mil, made to your specified thickness from 100% imported virgin fibre under de-mineralised process conditions.

THICKNESS RANGE	MAXIMUM WIDTH	CONSTRUCTION	STANDARDS
1.5 to 10 mil	2,500 mm	Dual-ply as standard	IS 8570 / IEC 60554

1.5 mil to 2.5 mil

PROPERTY	UNIT	1.5 MIL	2.0 MIL	2.5 MIL
pH of aqueous extract	—	6.0–8.5	6.0–8.5	6.0–8.5
Ash content	%	max 1.0	max 1.0	max 1.0
Electrical strength (in air)	kV/mm	min 7.0	min 7.0	min 7.0
Conductivity of aqueous extract	mS/m	max 4.0	max 4.0	max 4.0
Grammage	g/m ²	32 ± 3%	40 ± 4%	50.8 ± 5%
Thickness (5 sheets)	µm	40 ± 4%	50 ± 5%	63.5 ± 6%
Density	g/cm ³	> 0.60 to ≤ 0.85	> 0.60 to ≤ 0.85	> 0.60 to ≤ 0.85
Tensile index MD	N·m/g	min 59	min 59	min 59
Tensile index CD	N·m/g	min 11	min 13	min 13
Elongation MD	%	min 1.5	min 1.5	min 1.5
Elongation CD	%	min 1.8	min 2.7	min 2.7
Tear index MD	mN·m ² /g	min 2.5	min 3.0	min 3.0
Tear index CD	mN·m ² /g	min 7.0	min 7.0	min 7.0
Air permeability	µm/(Pa·s)	max 1.0	max 1.0	max 1.0
Water absorption	mm	min 2.0	min 3.0	min 4.0
Moisture content	%	max 8.0	max 8.0	max 8.0

3 mil to 7 mil

IEC 60554-3 COMPLIANT

PROPERTY	UNIT	3 MIL	4 MIL	5 MIL	6 MIL	7 MIL
pH of aqueous extract	–	6.0–8.0	6.0–8.0	6.0–8.0	6.0–8.0	6.0–8.0
Ash content	%	max 1.0	max 1.0	max 1.0	max 1.0	max 1.0
Electrical strength	kV/mm	min 7.5	min 7.5	min 7.5	min 7.5	min 7.5
Conductivity of aqueous extract	mS/m	max 10.0	max 10.0	max 10.0	max 10.0	max 10.0
Grammage	g/m ²	60 ± 5%	80 ± 5%	100 ± 5%	120 ± 5%	140 ± 5%
Thickness (5 sheets)	µm	76 ± 7%	100 ± 7%	127 ± 4%	152 ± 4%	178 ± 4%
Density	g/cm ³	> 0.75 to ≤ 0.85	> 0.75 to ≤ 0.85	> 0.75 to ≤ 0.85	> 0.75 to ≤ 0.85	> 0.75 to ≤ 0.85
Tensile index MD	N·m/g	min 93	min 93	min 93	min 93	min 93
Tensile index CD	N·m/g	min 35	min 35	min 35	min 35	min 35
Elongation MD	%	min 2.0	min 2.0	min 2.0	min 2.0	min 2.0
Elongation CD	%	min 4.0	min 4.0	min 4.0	min 4.0	min 4.0
Tear index MD	mN·m ² /g	min 5.0	min 6.0	min 6.0	min 6.0	min 8.0
Tear index CD	mN·m ² /g	min 6.0	min 7.0	min 7.0	min 7.0	min 9.0
Water absorption	mm	min 10	min 10	min 10	min 10	min 10
Moisture content	%	max 8.0	max 8.0	max 8.0	max 8.0	max 8.0

NOTES

1. Values are specification limits for standard supply. Where a specification has been agreed with you in writing, that specification applies.
2. Thickness and grammage are nominal values with the tolerance shown. 1 mil = 25.4 µm.
3. This datasheet is provided for information. It is not a warranty that the product is suitable for a particular application: confirm suitability for your design and process with us before ordering.
4. Specifications may be revised without notice. Copies are uncontrolled once downloaded or printed; the current revision is published at www.tomoegawaindia.com.
5. Batch test certificates can be supplied with every despatch on request.

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