

Diamond Dotted Paper HD (DDP-HD)

Diamond Dotted Paper on a high density base, 3 mil to 10 mil, coated with heat-curable epoxy resin for oil-immersed transformer coil insulation.

THICKNESS RANGE 3 to 10 mil	MAXIMUM WIDTH 2,500 mm	CONSTRUCTION Dual-ply as standard	STANDARDS IS 8570 / IEC 60554
--------------------------------	---------------------------	--------------------------------------	----------------------------------

3HD to 7HD

IEC 60554-3 COMPLIANT

PROPERTY	UNIT	3HD	4HD	5HD	6HD	7HD
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 8.0	min 8.0	min 8.0	min 8.0	min 8.0
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	76 ± 5%	102 ± 5%	127 ± 5%	152 ± 5%	178 ± 5%
Thickness (5 sheets)	µm	76 ± 7%	102 ± 7%	127 ± 4%	152 ± 4%	178 ± 4%
Coating film thickness	µm	10–15	10–15	10–15	10–15	10–15
Density	g/cm ³	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95
Tensile index MD	N·m/g	min 93	min 93	min 93	min 93	min 78
Tensile index CD	N·m/g	min 35	min 35	min 35	min 35	min 28
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 8.0	min 8.0	min 8.0
Tear index CD	mN·m ² /g	min 6.0	min 7.0	min 9.0	min 9.0	min 9.0
Water absorption	mm	min 10.0	min 10.0	min 10.0	min 10.0	min 10.0
Moisture content	%	max 8.0	max 8.0	max 8.0	max 8.0	max 8.0
Bond test	psi	min 40	min 40	min 40	min 40	min 40

PROPERTY	UNIT	8HD	9HD	10HD
pH of aqueous extract	—	5.0–8.5	5.0–8.5	5.0–8.5
Ash content	%	max 2.0	max 2.0	max 2.0
Electrical strength	kV/mm	min 8.0	min 8.0	min 8.0
Conductivity of aqueous extract	mS/m	max 3.0	max 3.0	max 3.0
Grammage	g/m ²	200 ± 10%	225 ± 10%	250 ± 10%
Thickness (5 sheets)	µm	200 ± 10%	225 ± 10%	250 ± 10%
Coating film thickness	µm	10–15	10–15	10–15
Density	g/cm ³	min 1.0	min 1.0	min 1.0
Tensile strength MD	N/15 mm	min 180	min 180	min 180
Tensile strength CD	N/15 mm	min 70	min 70	min 70
Moisture content	%	max 8.0	max 8.0	max 8.0
Bond test	psi	min 40	min 40	min 40

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.

Tomoegawa Aura India Pvt. Ltd.

6-3-648/1&2, Off Rajbhavan Road, Somajiguda, Hyderabad, Telangana 500082, India
+91 40 6761 7877 · websales@tomoegawaindia.com · www.tomoegawaindia.com

