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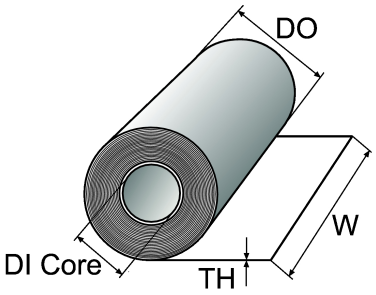
Diamond Pattern Paper (DPP)



E3DP000.RP

Product description
Diamond Dotted Presspaper improves the mechanical strength of oil-immersed transformer windings without reducing partial discharge levels. WEIDMANN manufactures this paper by applying discrete dots of B-stage resin on both sides in a diamond pattern.The size of the dots are carefully chosen to avoid interfering with vacuum drying and oil impregnation.

Product information
During B-stage, the resin dots are dry and tack free, permitting storage and handling similar to normal presspaper. When the winding is heated for drying purposes, the adhesive dots melt and cure, thus creating permanent bonding sites unaffected by further heating cycles that may occur in service. The bonding strength is adequate to support effective gluing in unsupported coil design.
Diamond Dotted Paper can be coated on one or both sides, the customer must specify when they order.
For additional properties, please see additional information in table below.
Minimal order quantity: 1 rol
Alternative ordering unit: kg

Product parameter

	Description	Unit	Range of value	Constraint	Tolerances		Comment
					Min	Max	
TH	thickness	mm		Please refer to the table below for additional information.			
GRM	grammage	lbs/3000ft²		Please refer to the table below for additional information.			
DO	diameter outside	mm	457.2 ≤ DO ≤ 914.4	Smaller DO's are available upon request but cost may increase.			Standard DO for slit rolls is 304.799mm
W	width	mm	63.5 ≤ W ≤ 1524				
L	length	mm		Calculated characteristic			
DI	diameter inside	mm	76.199 ≤ DI	= 76.199mm			

Additional information

Typical Values (based on thickness)						
Caliper: inch	0.003	0.005	0.007	0.010	0.015	0.020
mm	0.076	0.127	0.178	0.254	0.381	0.508

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Typical Values (based on thickness)						
Basis Weight. lbs/3000ft²	46	80	110	160	230	310
Apparent Density	.9 to 1.1. all thicknesses					
Moisture Content, %	2.3 to 6.5%, all thicknesses					
pH Water Extract	6.0 to 8.0, all thicknesses					
Ash Content, %	1% Maximum					
Nitrogen Content	1.3% to 2.6%, Coleman, by weight					
Tear Strength Machine Direction, grams/inch	60	120	200	300	500	750
Tear Strength Cross Machine Direction, grams/inch	78	164	240	400	650	850
Tensile Strength Machine Direction, lbs/inch	45	85	100	160	200	250
Tensile Strength Cross Machine Direction	15	20	25	40	80	120
Mullen Burst Strength, lbs/inch²	45	90	120	175	275	330
Dielectric Breakdown*, (Volts, Dry Test)	900	1,300	1,700	2,100	3,000	3,300
Dielectric Breakdown* (kilovolts, Oil Test)-(No Typical Values)	4.2 min	5.5 min	7.1 min	10.5 min	13.6 min	16.5 min
Bond Strength	Minimum 40 psi shear strength, tested at 100 degrees C.					
*Dielectric Values Based on Tests Made According to ASTM D202, Section 143.						
All data shown represents nominal or typical Values only and should not be constructed as minimum or maximum values unless specifically stated.						

Please contact us for values outside the specified ranges. The specified tolerances are valid for measurements taken at WEIDMANN or after conveyance and warehousing under conditions appropriate for the material. Customers are advised to add appropriate additional tolerances in case of extreme environmental conditions at the place of warehousing or processing of the material.

Ordering code

E3DP000.RP /TH/DO/DI/W

Disclaimer

Subject to change without prior notice

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