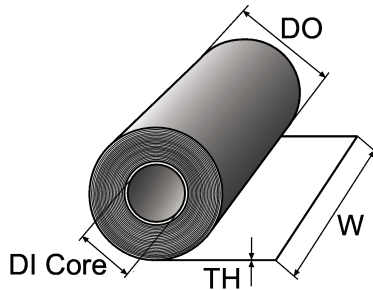


Nomex® Paper 410

E3NP10U.RP

Product description

Nomex® Paper 410, calendered



Product properties

Apparent density:	0.72g/cm ³ to 1.17g/cm ³		
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Product information

For additional properties, please see data sheet of supplier.

Existing article can be taken from the chart for product-variants.

Minimal order quantity: 1 rol

Alternative ordering unit: kg

Product parameter

	Description	Unit	Range of value	Constraint	Tolerances		Comment
					Min	Max	
GRE	external grade						
GR	material grade						
TH	thickness	mm	$0.05 \leq TH \leq 0.76$	0.05mm, 0.08mm, 0.13mm, 0.18mm, 0.25mm, 0.30mm, 0.38mm, 0.51mm or 0.76mm	-12%	+12%	
TH							
GRM	grammage	g/m ²	$40.7 \leq GRM \leq 847.3$				
DO	Diameter of the base	mm		ca. 300mm			
DO							
Core	core						
DI Core	diameter inside core	mm		= 76mm			
DI Core							
Weight Co-re	core weight						
Weight Co-re							
DI	diameter inside						

	Description	Unit	Range of value	Constraint	Tolerances		Comment
					Min	Max	
DI							
W	width	mm	$10 \leq W \leq 914$	Please specify!	-1%	+12%	
W							
Winding width	winding width						
Winding width							
L	length	m		Calculated characteristic			
L							
L Type	length type						
L Order	length order						
L Order							
FC	format code						
Format is known	format is known						
Piece per pack	unit per package						
Piece per order	unit per order						
Area	area						
Area							
Weight Net	weight net						
Weight Net							
Weight Gross	weight pre-tax						
Weight Gross							
Weight Net Order	weight net order						
Weight Net Order							
Weight Gross Order	weight pre-tax order						
Weight Gross Order							

Additional information

Typical Electrical Properties												
Nominal Thickness	(mil)	2	3	5	7	10	12	15	20	24	29	30
	(mm)	0.05	0.08	0.13	0.18	0.25	0.30	0.38	0.51	0.61	0.73	0.76
Dielectric Strength AC rapid rise	(V/mil)	460	565	715	865	845	870	850	810	810	760	680
	(kV/mm)	18	22	28	34	33	34	33	32	32	30	27
Full Wave Impulse	(V/mil)	1000	1000	1400	1400	1600	N/A	1400	1400	N/A	N/A	1250
	(kV/mm)	39	39	55	55	63	N/A	55	55	N/A	N/A	49

Typical Electrical Properties												
Dielectric Constant at 60Hz	1.6	1.6	2.4	2.7	2.7	2.9	3.2	3.4	3.7	3.7	3.7	3.7
Dissipation Factor at 60 Hz (x10-3)	4	5	6	6	6	7	7	7	7	7	7	7
Typical Mechanical Properties												
Properties	Test Method	Typical Values										
Nominal Thickness (mil)	-	2	3	5	7	10	12	15	20	24	29	30
Nominal Thickness (mm)	-	0.05	0.08	0.13	0.18	0.25	0.30	0.38	0.51	0.61	0.73	0.76
Typical Thickness (mil)	ASTM D374	2.2	3.1	5.2	7.2	10.2	12.2	15.3	20.4	24.2	28.7	30.6
Typical Thickness (mm)	-	0.06	0.08	0.13	0.18	0.26	0.31	0.39	0.52	0.61	0.73	0.78
Basic Weight, g/m ²	ASTM D646	41	64	115	174	249	310	395	549	692	846	839
Density, g/cc	-	0.72	0.81	0.88	0.95	0.96	1.00	1.02	1.06	1.13	1.16	1.08
Tensile Strength - MD (N/cm)	ASTM D828	43	68	141	227	296	380	462	610	728	832	816
Tensile Strength - CD (N/cm)	-	19	34	71	116	161	208	252	374	500	623	592
Elongation - MD (%)	ASTM D828	9	12	16	20	22	23	20	21	18	16	18
Elongation - CD (%)	-	7	9	13	15	18	18	16	17	14	13	14
Elmendorf Tear - MD (N)	TAPPI 414	0.7	1.2	2.3	3.7	5.6	7.1	9.0	14.3	N/A	N/A	N/A
Elmendorf Tear - CD (N)	-	1.5	2.4	4.8	7.2	10.6	13.7	16.7	24.8	N/A	N/A	N/A
Initial Tear Strength - MD (N)	ASTM D1004	11	16	31	48	69	88	110	158	191	233	233
Initial Tear Strength - CD (N)	-	6	9	17	27	42	55	71	114	153	193	193
Shrinkage at 300°C - MD (%)	-	1.8	1.1	0.7	0.6	0.3	0.3	0.2	0.0	0.0	0.0	0.0
Shrinkage at 300°C - CD (%)	-	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0

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

E3NP10U.RP /TH/GRM/DO/DI Core/W/L

Product variants

	TH (mm)	GRM (g/m ²)	DO (mm)	DI Core (mm)	W (mm)	L (m)
E3NP10U.0050R0242	0.05	41	286.32	76	914	1143
E3NP10U.0080R0261	0.08	63	296	76	914	768
E3NP10U.0130R0242	0.13	116	286.15	76	914	439
E3NP10U.0180R0243	0.18	175	287.32	76	914	320
E3NP10U.0250R0250	0.25	250	291.5	76	914	238
E3NP10U.0300R0237	0.3	309	281.28	76	914	183
E3NP10U.0380R0248	0.38	395	290.19	76	914	155
E3NP10U.0510R0260	0.51	546	294.09	76	914	119
E3NP10U.0760R0262	0.76	844	297.6	76	914	82

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