



Phenolic Resin – Cotton Fabric Substrates – Sheet Grades

Phenolic Resin System – Cotton Fabric Substrates – 1/5						
Grade	MC223	MC320LE	MC330	NP310	NP310BW	NP310E
Resin	Phenolic					
NEMA ¹	---	LE	---	C	---	CE
Color	NA	NA	NA/BK	NA/BK	NA	NA/BK
Sheet Size	Thicknesses Manufactured					
39" x 79"			0.031 - 4.000*	0.031 - 4.000*		0.031 - 4.000*
48" x 120"		0.062 - 1.125	0.062 - 1.125	0.062 - 1.125		0.062 - 1.125
48" x 96"		0.062 - 1.125	0.062 - 1.125	0.062 - 1.125		0.047 - 1.125
48" x 72"			0.031 - 1.000	0.031 - 1.000		0.031 - 1.000
48" x 60"			1.126 - 4.000*	1.126 - 4.000*		1.126 - 4.000*
48" x 48"	0.100 - 4.000*	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		1.126 - 4.000*
48" x 39"	0.100 - 4.000*		1.126 - 4.000*	1.126 - 4.000*		1.126 - 4.000*
48" x 36"	0.100 - 4.000*	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*	0.280 - 4.000*	1.126 - 4.000*
Cover Plies				RC, XA, XD		RC, XA
48" x 96" - Thin sheets manufactured 2 nd week of the calendar month.		X	X	X		X
Press load quantities required.			X (48" x 72")	X (48" x 72")		X (48" x 72")
Heat treating required.			X			

* Contact Customer Service for requirements over 4.0 inches. 800-350-9490

¹ For information on Specifications and Standards, see "Sheet – Specification Cross Reference".

Phenolic Resin System – Cotton Fabric Substrate – 2/5						
Grade	NP310HT	NP310U	NP313	NP313HT	NP315	NP318
Resin	Phenolic		Phenolic – MoS ₂	Phenolic – MoS ₂	Phenolic – Graphite	Phenolic
NEMA ²	C	---	---	---	---	CF
Color	NA/BK	NA/BK	NA	NA/BK	BK	NA/BK
Sheet Size	Thicknesses Manufactured					
39" x 79"	0.031 - 4.000*	0.062 - 4.000*	0.047 - 4.000*	0.125 - 1.000	0.031 - 4.000*	
48" x 120"	0.062 - 1.125	0.062 - 1.125	0.062 - 1.125		0.062 - 1.125	0.031 - 0.250
48" x 96"	0.062 - 1.125	0.062 - 1.125	0.062 - 1.125	0.187 - 1.000	0.062 - 1.125	
48" x 72"	0.031 - 1.000					
48" x 60"	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		1.126 - 4.000*	
48" x 48"	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		1.126 - 4.000*	
48" x 39"	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		1.126 - 4.000*	
48" x 36"	1.126 - 4.000*	1.126 - 4.000*			1.126 - 4.000*	
48" x 96" - Thin sheets manufactured 2nd week of the calendar month.	X	X	X		X	
Press load quantities required.	X (48" x 72")			X		
Heat treating required.	X			X		

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² For information on Specifications and Standards, see "Sheet – Specification Cross Reference".

Phenolic Resin System – Cotton Fabric Substrate – 3/5						
Grade	NP319	NP320	NP320E	NP320U	NP322	NP322HT
Resin	Phenolic – Graphite	Phenolic			Phenolic – MoS ₂	Phenolic – MoS ₂
NEMA ³	---	L	LE	---	---	---
Color	BK	NA/BK	NA/BK	NA/BK	NA	NA
Sheet Size	Thicknesses Manufactured					
39" x 79"		0.010 - 4.000*	0.010 - 4.000*	0.010 - 4.000*	0.018 - 4.000*	0.018 - 4.000*
39" x 48"					1.000 - 4.000*	
48" x 120"	0.062 - 1.125	0.047 - 1.125	0.047 - 1.125	0.047 - 1.125		
48" x 96"	0.062 - 1.125	0.047 - 1.125	0.047 - 1.125	0.047 - 1.125		
48" x 60"	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		
48" x 48"	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		
48" x 39"	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		
48" x 36"		1.126 - 4.000*	1.126 - 4.000*	1.126 - 4.000*		
Cover Plies		FC, FD, FE, FF, FG, NC, RC	FF, RC, XA	RC		
48" x 96" - Thin sheets manufactured 2 nd week of the calendar month.	X	X	X	X		
Heat treating required.						X

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³ For information on Specifications and Standards, see "Sheet – Specification Cross Reference".

Phenolic Resin System – Cotton Fabric Substrate – 4/5					
Grade	NP325	NP342	NP342LS	NP344	NP347
Resin	Phenolic – Graphite	Phenolic		Phenolic – MoS ₂	Phenolic – MoS ₂
NEMA ⁴	---	C	---	---	---
Color	BK	NA	NA/BK	NA	NA
Sheet Size	Thicknesses Manufactured				
39" x 79"	0.015 - 4.000*	0.031 - 1.125			
48" x 120"	0.187 - 1.125	0.031 - 1.125	0.218 - 1.125		0.125 - 1.125
48" x 96"	0.187 - 1.125	0.187 - 1.125		0.062 - 1.125	0.125 - 1.125
48" x 60"	1.126 - 4.000*				1.126 - 4.000*
48" x 48"	1.126 - 4.000*	1.126 - 4.000*		1.126 - 4.000*	1.126 - 4.000*
48" x 39"		1.126 - 4.000*	1.126 - 4.000*		
48" x 96" - Thin sheets manufactured 2 nd week of the calendar month.				X	X
Heat treating required.			X	X	X
Testing required.			X		

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⁴ For information on Specifications and Standards, see "Sheet – Specification Cross Reference".



Phenolic Resin – Cotton Fabric Substrates – Bearing Grades

Phenolic Resin System – Cotton Fabric Substrate – 5/5		
Grade	BR60	BR70
Resin	Phenolic	
NEMA ⁵	---	
Color	BK	RD
Sheet Size	Thicknesses Manufactured	
48" x 48"	0.750 - 4.000*	
48" x 36"	0.750 - 4.000*	

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⁵ For information on Specifications and Standards, see "Sheet – Specification Cross Reference".