

A close-up photograph of a motor's rotor assembly. The rotor features numerous dark, rectangular laminations stacked together. Coiled around these laminations is a thick, reddish-brown copper wire, which is part of the stator windings. The assembly is mounted on a white cylindrical shaft. The background is dark, making the metallic components stand out.

Flexible Laminates
Myoflex® Product Range

VonRoll

We Enable Energy

As one of the oldest industrial companies in Switzerland, founded in 1803, we focus on products and systems for power generation, transmission and distribution, rotating machines and mechanical engineering. Von Roll is a global market leader for insulation products and the only company to offer the complete range of insulation products, composites, consulting, tests and services for the electrotechnical industry.

For more than 100 years, we have been making outstanding contributions to this market, developing a number of highly innovative products that have enabled both steady increases in power output and smaller and more compact machines.

Customers enjoy the following benefits:

- » One single source for all insulating materials
- » Thorough expertise from power generation and transmission to its efficient utilization
- » Proven compatibility for system components
- » Testing at Von Roll of both materials and systems
- » Consulting for applications and technologies
- » Training in insulation materials and systems

The flexible laminate products from Von Roll are high-quality products, registered under the trade name Myoflex®. Myoflex® materials are manufactured by laminating insulation plastic films with non-wovens, or paper materials. The high quality of this lamination is a result of the adhesive formulation and the dedicated work and development of our experienced chemical engineers.

Multi-layer insulation laminates include two or three layers. The layer in the middle consists of polyester or polyimide. Combination of materials enables different characteristics, optimized properties and functionality of laminates, such as:

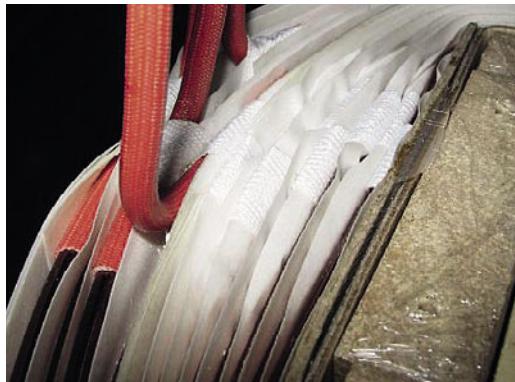
- » Ability to work under different operating temperatures
- » An optimized tensile strength and stiffness of material
- » An increased resistance to breakdown voltage
- » An improved capacity for impregnation



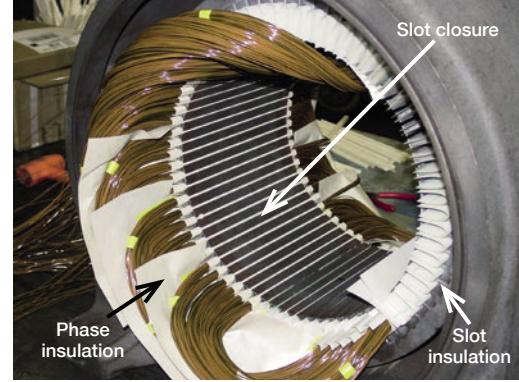
Flexible Laminates from Von Roll

Description	Properties	End uses
DM or DMD: bplex or triplex laminates with polyester film and non-woven polyester felt		
Laminated product made with the coupling of polyester non-woven felt with polyester film. Bplex or triplex laminate. The polyester felt is used to improve the thermal aging performance of the polyester film.	Overall performance of the laminates is achieved by saturating the polyester felt with synthetic resins. Triplex PVSH is rated 180°C and is fully saturated with a high thermal resistant adhesive. Polyester film thickness increases product rigidity and dielectric performance.	Suitable for thermal classes 130°C and 155°C for rotating machines and transformer applications » slot insulations » phase insulations » interlayer insulations
NM or NMN: bplex or triplex laminates with Nomex®¹⁾ paper and polyester film		
Laminated product made with the coupling of Nomex® ¹⁾ paper with polyester film. Bplex or triplex laminates. Nomex® ¹⁾ is used to improve the thermal performance up to 220°C when requested.	Overall performance of the laminates is the thermal resistance up to 180°C. Polyester film and Nomex® ¹⁾ paper offer both strong mechanical resistance and excellent electrical properties.	Suitable for thermal classes 155°C and 180°C for rotating machines and transformer applications » slot insulations » phase insulations » interlayer insulations
NK, NKH, NHN: bplex or triplex laminates with Nomex®¹⁾ paper and polyimide film (Kapton®¹⁾)		
Laminated product made by coupling Nomex® ¹⁾ paper with polyimide or Kapton® ¹⁾ film. Bplex or triplex laminates. Both component assemblies are used for extreme high temperature insulation (> 200°C) when requested.	Overall performance of the laminates is the thermal resistance up to 220°C.	Suitable for thermal classes 200°C and 220°C for rotating machines and transformer applications. » slot insulations » phase insulations » interlayer insulations

¹⁾ Nomex® and Kapton® are registered trademarks of DuPont®



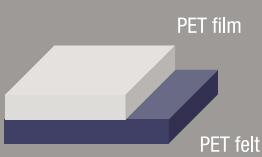
Intermediate insulation of transformer



Stator insulation

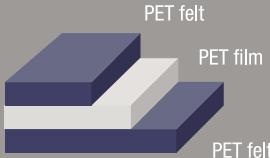
Myoflex® Flexible Laminates

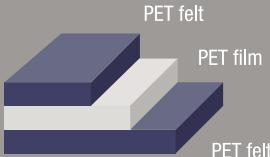
with polyester film and non-woven polyester felt

	Product name	Generic name	Construction	Product structure	Total thickness	Treatment
				mils	mm	
	DM 70 Myoflex® PV/1	DM	PET felt / PET film	2/1	0.08	Unsaturated
				2/2	0.10	
				2/4	0.16	
				2/5	0.19	
				2/6	0.20	
				2/7.5	0.24	
				2/10	0.30	
				2/12	0.35	
				2/14	0.40	
	DM 100 Myoflex® PVS/1	DM	PET felt / PET film	2/5	0.20	Fully saturated
				2/7.5	0.24	
				2/10	0.30	
				2/12	0.36	
				2/14	0.40	
	DMD 70 Myoflex® PV	DMD	PET felt / PET film / PET felt	2/1/2	0.13	Unsaturated
				2/2/2	0.15	
				2/3/2	0.18	
				2/4/2	0.20	
				2/5/2	0.23/0.25	
				2/6/2	0.26	
				2/7.5/2	0.30	
				2/10/2	0.35	
				2/12/2	0.41	
				2/14/2	0.45	
				3/1/3	0.19	
				3/2/3	0.21	
				3/3/3	0.24	
				3/5/3	0.29	
				3/7.5/3	0.34	
				3/10/3	0.41	
				3/12/3	0.45	
				3/14/3	0.51	
				5/3/5	0.33	
				5/5/5	0.35	
				5/10/5	0.49	



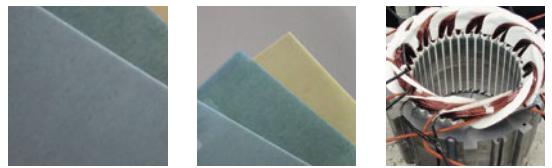
PET film thickness μm	Weight g/sqm	Yield sqm/kg	Tensile strength		Breakdown voltage	Thermal class	Advantages / key applications
			DM	MD			
23	75	13.30	40	50	4.5	155°C	Motor: ground and slot insulation, slot closure and phase insulation
50	110	9.09	80	70	6		Transformer: intermediate and top layers
100	180	5.56	140	130	8		Better absorption of varnishes and resins
125	210	4.76	160	150	10		
150	250	4.00	180	170	12		
190	300	3.33	210	190	15		
250	390	2.56	300	270	18		
300	465	2.15	360	330	20		
350	520	1.92	400	370	22		
125	220	4.55	180	170	10	155°C	Motor: ground and slot insulation, slot closure and phase insulation
190	310	3.23	220	200	15		Transformer: intermediate and top layers
250	400	2.50	290	280	19		Designed for automatic insertion
300	470	2.13	370	340	21		
350	530	1.89	410	380	23		
23	125	8.00	60	40	5	155°C	Motor: ground and slot insulation, slot closure and phase insulation
50	160	6.25	90	80	7		Transformer: intermediate and top layers
75	198	5.05	120	105	8		Better absorption of varnishes and resins
100	230	4.35	130	125	9		
125	265	3.77	180	155	10		
150	290	3.45	190	180	12		
190	350	2.86	230	200	13		
250	440	2.27	300	270	18		
300	500	2.00	380	350	20		
350	560	1.79	400	350	22		
25	160	6.25	80	50	6		
50	190	5.26	100	80	7		
75	220	4.55	120	100	8		
125	300	3.33	140	140	10		
190	375	2.67	250	250	12		
250	450	2.22	310	300	18		
300	540	1.85	390	360	22		
350	620	1.61	410	380	24		
75	310	3.23	190	130	10		
125	390	2.56	220	160	12		
250	550	1.82	360	300	20		

	Product name	Generic name	Construction	Product structure	Total thickness	Treatment
				mils	mm	
	DMD 100 Myoflex® PVS	DMD	PET felt / PET film / PET felt	2/1/2	0.13	Fully saturated
				2/2/2	0.15	
				2/3/2	0.18	
				2/4/2	0.20	
				2/5/2	0.25	
				2/7.5/2	0.30	
				2/10/2	0.35	
				2/12/2	0.42	
				2/14/2	0.45	
				3/2/3	0.22	
				3/3/3	0.25	
				3/5/3	0.30	
				3/7.5/3	0.35	
				3/10/3	0.41	
				5/3/5	0.34	
				5/5/5	0.37	
				5/10/5	0.5	

	Myoflex PVSH	DMD	PET felt / PET film / PET felt	3/1/3	0.18	Fully saturated, with high thermal-resistant adhesive
				3/2/3	0.21	
				3/3/3	0.23	
				3/4/3	0.25	
				3/5/3	0.28	
				3/7.5/3	0.34	
				3/10/3	0.4	
				3/12/3	0.45	
				3/14/3	0.51	

Measured values are in compliance with IEC standard 626-2 and thermal class ratings are according to IEC 216 and IEC 85.



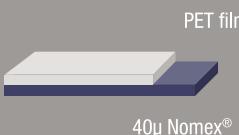
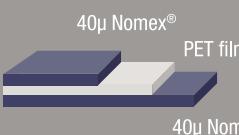


PET film thickness μm	Weight g/sqm	Yield sqm/kg	Tensile strength		Breakdown voltage	Thermal class	Advantages / key applications
			DM	MD			
23	134	7.45	70	50	5.5	155°C	Motor: ground and slot insulation, slot closure and phase insulation
50	165	6.06	95	75	7		Transformer: intermediate and top layers
75	205	4.88	125	105	8		Designed for automatic insertion
100	240	4.17	150	125	9		
125	275	3.64	195	180	10		
150	290	3.45	190	180	12		
190	370	2.70	260	240	14		
250	450	2.22	330	300	18		
300	505	1.98	370	330	20		
350	580	1.72	400	380	22		
50	210	4.76	120	80	8		
75	235	4.26	150	100	9		
125	320	3.13	200	170	11		
190	390	2.56	280	240	13		
250	465	2.15	350	320	19		
75	335	2.99	220	160	11		
125	405	2.47	250	180	12		
250	580	1.72	400	320	20		
23	176.7	5.66	90	50	5.5	180°C	Motor: ground and slot insulation, slot closure and phase insulation
50	214.5	4.66	175	155	6.5		Transformer: intermediate and top layers
75	249.5	4.01	190	170	9.5		Designed for automatic insertion
100	284	3.521	220	185	11		Operating temperature 180°C
125	325	3.08	250	200	12		
190	414	2.42	300	225	15.5		
250	500	2	350	280	18		
300	570	1.75	380	330	20		
350	640	1.56	410	380	22		



Myoflex® Flexible Laminates

with Nomex®^① paper and polyester film

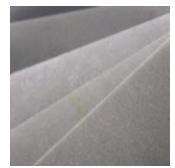
	Product name	Generic name	Construction	Product structure	Total thickness	Treatment
				mils	mm	
 PET film 40μ Nomex®	Myoflex 1N40	NM	40μ Nomex® paper / PET film	1.5/2	0.1	Calendered
				1.5/3	0.13	
				1.5/4	0.15	
				1.5/5	0.18	
				1.5/6	0.2	
				1.5/7.5	0.24	
				1.5/10	0.3	
 PET film 50μ Nomex®	Myoflex 1N50	NM	50μ Nomex® paper / PET film	2/1	0.08	Calendered
				2/2	0.11	
				2/3	0.13	
				2/4	0.16	
				2/5	0.18	
				2/7.5	0.25	
				2/10	0.31	
				2/12	0.35	
				2/14	0.41	
 PET film 80μ Nomex®	Myoflex 1N80	NM	80μ Nomex® paper / PET film	3/1	0.11	Calendered
				3/2	0.14	
				3/3	0.16	
				3/4	0.19	
				3/5	0.21	
				3/7.5	0.28	
				3/10	0.34	
				3/12	0.39	
				3/14	0.44	
 40μ Nomex® PET film 40μ Nomex®	Myoflex 2N40	NMN	40μ Nomex® paper / PET film / 40μ Nomex® paper	1.5/2/1.5	0.13	Calendered
				1.5/3/1.5	0.16	
				1.5/4/1.5	0.18	
				1.5/5/1.5	0.21	
				1.5/6/1.5	0.23	
				1.5/7.5/1.5	0.28	
				1.5/10/1.5	0.34	



PET film thickness μm	Weight g/sqm	Yield sqm/kg	Tensile strength		Breakdown voltage	Thermal class	Advantages / key applications
			DM	MD			
50	110	9.09	70	60	6	155°C	Motor: ground and slot insulation, slot closure and phase insulation
75	150	6.67	100	90	8		Transformer: intermediate and top layers
100	190	5.26	130	110	10		Designed for automatic insertion
125	220	4.55	150	130	11		High thermal resistance
150	250	4	170	150	12		
190	300	3.33	220	200	15		
250	390	2.56	250	230	17		
23	85	11.7	60	50	5	155°C	Motor: ground and slot insulation, slot closure and phase insulation
50	123	8.13	90	80	8		Transformer: intermediate and top layers
75	158	6.33	120	100	11		Designed for automatic insertion
100	193	5.18	150	120	14		High thermal resistance
125	228	4.39	180	145	16		
190	319	3.13	240	200	18		
250	403	2.48	300	245	20		
300	473	2.11	320	275	24		
350	543	1.84	340	290	29		
23	110	9.11	80	50	6		Motor: ground and slot insulation, slot closure and phase insulation
50	148	6.78	110	80	9	155°C	Transformer: intermediate and top layers
75	183	5.48	130	100	12		Designed for automatic insertion
100	218	4.60	165	120	15		High thermal resistance
125	253	3.95	200	145	16		Strong mechanical resistance
190	344	2.91	240	200	18		
250	428	2.34	300	245	20		
300	500	2.00	340	270	24		
350	570	1.75	380	300	28		
50	150	6.67	100	80	9		Motor: ground and slot insulation, slot closure and phase insulation
75	200	5.00	130	120	10	155°C	Transformer: intermediate and top layers
100	240	4.17	160	150	12		Designed for automatic insertion
125	260	3.85	180	170	13		High thermal resistance
150	290	3.45	200	190	14		Also suited for motors operating at 180°C
190	350	2.86	250	240	18		
250	435	2.30	280	270	19		

	Product name	Generic name	Construction	Product structure	Total thickness	Treatment
				mils	mm	
	Myoflex 2N50	NMN	50µm Nomex® paper / PET film / 50µm Nomex® paper	2/1/2	0.15	Calendered
				2/2/2	0.17	
				2/3/2	0.19	
				2/4/2	0.22	
				2/5/2	0.24	
				2/6/2	0.26	
				2/7.5/2	0.31	
				2/10/2	0.37	
				2/12/2	0.42	
				2/14/2	0.47	
	Myoflex 2N80	NMN	80µm Nomex® paper / PET film / 80µm Nomex® paper	3/1/3	0.19	Calendered
				3/2/3	0.22	
				3/3/3	0.25	
				3/4/3	0.28	
				3/5/3	0.31	
				3/7.5/3	0.36	
				3/10/3	0.43	
				3/12/3	0.48	
				3/14/3	0.53	
	Myoflex 2N130	NMN	130µm Nomex® paper / PET film / 130µm Nomex® paper	5/1/5	0.30	Calendered
				5/2/5	0.33	
				5/3/5	0.35	
				5/4/5	0.37	
				5/5/5	0.4	
	Myoflex 2N130NC	NMN	130µm Nomex® paper / PET film / 130µm Nomex® paper	5/1/5	0.30	Non-calendered
				5/2/5	0.33	
				5/3/5	0.35	
				5/4/5	0.39	
				5/5/5	0.4	

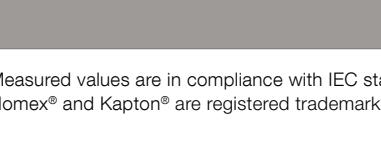
Measured values are in compliance with IEC standard 626-2 and thermal class ratings are according to IEC 216 and IEC 85.
Nomex® is a registered trademark of Dupont™ and its affiliates.



PET film thickness μm	Weight g/sqm	Yield sqm/kg	Tensile strength		Breakdown voltage	Thermal class	Advantages / key applications
			DM	MD			
23	138	7.24	100	80	6	155°C	Motor: ground and slot insulation, slot closure and phase insulation
50	182	5.68	140	110	9		Transformer: intermediate and top layers
75	217	4.74	160	140	10		Designed for automatic insertion
100	252	4.07	180	150	14		High thermal resistance
125	287	3.56	220	200	16		Also suited for motors operating at 180°C
150	322	3.11	240	230	17		
190	378	2.69	280	260	18		
250	462	2.19	330	300	20		
300	532 (526)	1.9	370	350	23		
350	602	1.68	400	380	28		
23	187	5.34	180	110	6	155°C	Motor: ground and slot insulation, slot closure and phase insulation
50	225	4.44	200	150	10		Transformer: intermediate and top layers
75	260	3.84	240	180	12		Designed for automatic insertion
100	295	3.39	280	190	14		High thermal resistance
125	330	3.03	280	220	16		Also suited for motors operating at 180°C
190	421	2.37	360	300	18		Strong mechanical resistance
250	505	1.98	420	380	21		
300	575	1.74	470	400	24		
350	645	1.55	550	480	30		
25	314	3.18	80	55	7		Motor: ground and slot insulation, slot closure and phase insulation
50	349	2.86	110	90	10	155°C	Transformer: intermediate and top layers
75	384	2.60	130	110	13		Designed for automatic insertion
100	419	2.38	170	130	16		High thermal resistance
125	425	2.35	220	210	18		
25	136	7.34	60	nd	5		NC: non-calendered Nomex®
50	200	5.00	90	nd	7	155°C	Phase insulation application
75	235	4.25	120	nd	10		Good absorption of varnishes and resins
100	280	3.57	160	nd	13		High thermal resistance
125	300	3.33	220	nd	16		

Myoflex® Flexible Laminates

with Nomex®^① paper and polyimide film

	Product name	Generic name	Construction	Product structure	Total thickness	Treatment
				mils	mm	
 Polyimide film (Kapton®)	Myoflex 1NK25	NK	Nomex® paper / Polyimide film (Kapton®)	2/1	0.09	Calendered
				3/1	0.12	
				5/1	0.17	
				7/1	0.22	
				10/1	0.29	
 Nomex®	Myoflex 1NK50	NK	Nomex® paper / Polyimide film (Kapton®)	2/2	0.11	Calendered
				3/2	0.14	
				5/2	0.2	
				7/2	0.25	
				10/2	0.32	
 Nomex®	Myoflex 1NK75	NK	Nomex® paper / Polyimide film (Kapton®)	2/3	0.14	Calendered
				3/3	0.17	
				5/3	0.22	
				7/3	0.27	
				10/3	0.34	
 Nomex®	Myoflex NH	NH	Nomex® paper / Polyimide film	7/1	0.22	Calendered
				2/1	0.09	
 Nomex®	Myoflex 2NK25	NKN		3/1/3	0.21	Calendered
				5/1/5	0.31	
				7/1/7	0.41	
 Nomex®	Myoflex 2NK50	NKN	Nomex® paper / Polyimide film (Kapton®) / Nomex® paper	3/2/3	0.24	Calendered
				5/2/5	0.34	
				7/2/7	0.43	
 Nomex®	Myoflex 2NK75	NKN		3/3/3	0.25	Calendered
				5/3/5	0.34	
				7/3/7	0.45	
 Nomex®	Myoflex NHN	NHN	Nomex® paper / Polyimide film / Nomex® paper	2/1/2	0.15	Calendered
				3/1/3	0.20	
				3/2/3	0.22	
				5/1/5	0.30	
				2/3/2	0.19	
				3/3/3	0.25	
				2/5/2	0.25	
				2/7/2	0.30	
				2/7/3	0.32	
				5/2/5	0.35	
				3/7/3	0.35	
				5/3/3	0.30	
				5/3/5	0.35	

Measured values are in compliance with IEC standard 626-2 and thermal class ratings are according to IEC 216 and IEC 85.
 Nomex® and Kapton® are registered trademarks of DuPont™ and its affiliates.

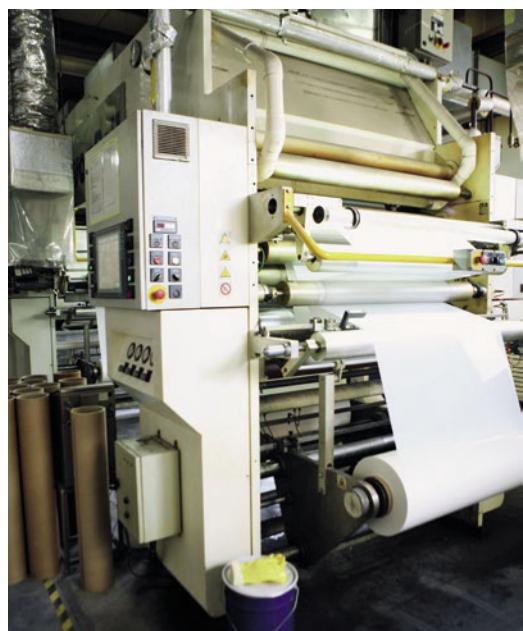


Polyimide film thickness μm	Weight g/sqm	Yield sqm/kg	Tensile strength		Breakdown voltage	Thermal class	Advantages / key applications
			DM	MD			
50	92	10.93	100	60	8	220°C	
80	118	8.99	110	70	7		
130	167	5.98	120	75	10		
180	220	4.30	130	80	9.5		
250	288	3.44	140	85	10		
50	125	8.00	130	95	8	220°C	
80	151	6.62	140	110	11.5		
130	196.1	5.1	145	115	12		
180	260	3.85	155	125	12.7		
250	320	3.47	170	140	10		
50	163	6.15	170	180	14	220°C	
80	188	5.34	175	185	15		
130	232	4.32	180	190	17		
180	304	3.30	185	195	19		
250	362	2.77	190	200	22		
180	225	4.44	330	140	8.5	220°C	Motor: ground and slot insulation, slot closure and phase insulation
50	90	11.1	60	40	7		
80	195.6	5.11	116	76	8	220°C	Transformer: intermediate and top layers Suited for traction motors and generators
130	290	3.45	100	59.7	11		
180	196.5	5.09	26	20	13		
80	231	4.33	115	120	11	220°C	Designed for automatic insertion Outstanding electrical insulation at elevated temperature up to 220°C
130	181	5.52	120	125	13		
180			125	130	15		
80	266	3.76	175	180	18	220°C	
130	337	2.96	180	185	22		
180	500	2	185	190	25		
50	150	6.67	80	60	8		
80	200	5	160	100	8		
80	240	4.17	190	120	11		
130	310	3.23	280	180	10		
50	220	4.55	150	100	14		
80	275	3.64	220	140	15		
50	300	3.33	200	140	18		
50	355	2.82	220	180	19		
50/80	380	2.63	250	200	22		
130	350	2.86	310	200	12		
80	410	2.44	280	230	22		
130/80	320	3.13	240	160	15		
130	375	2.67	330	160	15		

Forms of Delivery

Product denomination	Width untrimmed mm	ID core mm	Maximum roll diameter mm	Weight delivery kg		Jumbo delivery kg	Minimum standard width slit rolls* mm
Myoflex PV/1	1000	76	480	50	100	120-180	6
Myoflex PVS/1	1000	76	400	50	100	120-180	6
Myoflex PV	1000	76	400	50	100	120-180	6
Myoflex PVS	1000	76	400	50	100	120-180	6
Myoflex PVSH	1000	76	400	50	100	120-180	6
Myoflex 1N50	925	76	400	50	100	120-180	6
Myoflex 1N80	925	76	400	50	100	120-180	6
Myoflex 2N50	925	76	400	50	100	120-180	6
Myoflex 2N80	925	76	400	50	100	120-180	6
Myoflex 2N130	925	76	400	50	100	120-180	6
Myoflex 2N130NC	925	76	400	50	100	120-180	6
Myoflex 1NK25	925	76	400	50	100	120-180	6
Myoflex 1NK50	925	76	400	50	100	120-180	6
Myoflex 1NK75	925	76	400	50	100	120-180	6
Myoflex 2NK25	925	76	400	50	100	120-180	6
Myoflex 2NK50	925	76	400	50	100	120-180	6
Myoflex 2NK75	925	76	400	50	100	120-180	6
Myoflex NHN	925	76	400	50	100	120-180	6

* Smaller widths possible by special request



Certifications and UL Approvals

Product denomination	VRI-Spa-130°C	VRI-Spa-155°C	VRI-Spa-180°C	VR-130-1P	VR-155-1P	VR-180-1P
Myoflex PV/1				Y		
Myoflex PVS/1				Y		
Myoflex PV				Y		
Myoflex PVS		Y		Y		
Myoflex PVSH				Y		
Myoflex 1N50	Y			Y	Y	Y
Myoflex 1N80	Y			Y	Y	Y
Myoflex 2N50	Y		Y	Y	Y	Y
Myoflex 2N80	Y		Y	Y	Y	Y
Myoflex 2N130	Y		Y	Y	Y	Y
Myoflex 2N130NC	Y			Y		Y
Myoflex 1NK25	Y			Y	Y	Y
Myoflex 1NK50	Y			Y	Y	Y
Myoflex 1NK75	Y			Y	Y	Y
Myoflex 2NK25	Y			Y	Y	Y
Myoflex 2NK50	Y			Y	Y	Y
Myoflex 2NK75	Y			Y	Y	Y
Myoflex NHN				Y	Y	Y
Myoflex NH				Y	Y	Y



We Enable Energy

Von Roll is the sole full-range supplier of materials and systems for the insulation of electrical machines as well as high-performance products for various high-tech industries.



Mica

All materials related to high-voltage insulation. Von Roll's commitment to mica starts with mining and ends with finished tapes.



Wires

Insulated round, flat and Litz wires for high-voltage, low-voltage and electronic applications.



Cables

Mica tapes for fire-resistant cables. Von Roll provides a wide range of products that are ideally suited to all commonly used standards.



Resins

Impregnation resins for high- and low-voltage, potting resins, casting resins, as well as encapsulating and conformal coatings.



Composites

Engineered materials made from a resin and a support structure with distinct physical, thermal and electrical properties. They can be molded, machined or semi-finished.



Flexibles

Insulating flexible materials for low-voltage applications such as flexible laminates.



Ballistic Protection

High-quality systems for armored defense based on thermoset / thermoplastic products in single-use or tailored combinations.



Testing

Von Roll provides electrical, thermal and mechanical testing of individual materials as well as complete insulating systems.



Training

Von Roll Corporate University provides a training program in high- and low-voltage insulation for its customers.

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About Von Roll

We Enable Energy – As one of Switzerland's longest-established industrial companies, Von Roll focuses on products and systems for electrical power generation, transmission, storage and industrial applications. Von Roll's business portfolio is divided into the following businesses: **Von Roll Insulation** offers electrical insulation products, systems and services for generators, high- and low-voltage motors, transformers and other applications. **Von Roll Composites** produces composite materials and parts for a variety of industrial equipment.