

laminates

Acuflex® DMD 100, DM100

- ▶ Tough, affordable laminates for wide variety of applications
- ▶ Excellent resistance to cut through and edge tear
- ▶ Many UL systems including Acuflex® laminates are available for class B and F designs; may often be used as secondary insulation through class H
- ▶ Wide range of constructions to optimize mechanical and electrical designs
- ▶ Standard color is blue, but white and other colors are available
- ▶ White version is acceptable for use in most hermetic motor applications

General description

Acuflex® DMD 100 triplex and DM 100 duplex polyester mat/polyester film laminates are constructed of high-density polyester mat and electrical grade polyester film bonded with Von Roll's Thermal Bond adhesive system. The polyester film contributes high dielectric strength, tear, tensile and burst strengths. The high-density polyester mat in combination with Von Roll Isola's proprietary Thermal Bond adhesive and topcoat provides exceptional heat stability.

Application

Acuflex® DMD 100 and DM 100 laminates are suitable for use in fractional to the largest rotating electrical equipment as slot, phase and end turn insulation and as ground and wrapper insulation in dry type transformers. They are well suited for punched and fabricated parts and produce excellent heat formed parts such as wedges and slot interlining insulation. The smooth, non-sloughing surface of these materials allow for excellent performance in automated winding equipment. These laminates also meet the requirements of MIL-1-22834 and MIL-1-917D.

Health and safety

Material Safety Data Sheets defining the known hazards and describing safety precautions appropriate for this product are available upon request from Von Roll USA, Inc., 200 Von Roll Drive, Schenectady, New York 12306 (518) 344-7100. Similar information sheets for solvents and other chemicals used with this product may be obtained from the appropriate supplier and used accordingly.

Shelf life

Shelf life is in excess of one year when stored at room temperature.

Specifications

The properties shown above are typical values only, and should not be used as a basis for preparing specifications. Contact our Customer Service department, (518) 344-7100 for assistance in preparation of specifications for your specific system application.

Properties

Thickness	Product Yield		Dielectric Strength	Volume Resistivity	Surface Resistivity	Tensile Strength	Tear Strength			
	ASTM D374		ASTM D149 2" dia. electrode	ASTM D257	ASTM D257	ASTM D882	ASTM D1004			
Mils	Syd/lb	Lb/syd	Volts	Ohms/cm	Ohms	Lb /in width		(Lb.)		
						MD	CD	MD	CD	
DM 3-7.5	10.5	1.56	.64	14,000	10 ¹⁵	10 ¹³	140	180	25	15
DM 3-10	13.0	1.19	.84	16,000	10 ¹⁵	10 ¹³	180	220	31	19
DM 3-14	17.0	.97	1.03	18,000	10 ¹⁵	10 ¹³	240	260	41	27
DMD 2-1-2	4.9	4.44	.23	5,700	10 ¹⁵	10 ¹³	108	60	9	5
DMD 2-2-2	6.3	3.50	.29	8,400	10 ¹⁵	10 ¹³	112	90	12	6
DMD 2-3-2	7.0	3.13	.32	11,200	10 ¹⁵	10 ¹³	120	110	15	12
DMD 2-5-2	9.0	1.96	.51	13,600	10 ¹⁵	10 ¹³	130	145	19	13
DMD 2-7.5-2	12.0	1.52	.66	16,700	10 ¹⁵	10 ¹³	176	213	28	23
DMD 2-10-2	14.2	1.19	.84	18,300	10 ¹⁵	10 ¹³	205	215	32	25
DMD 3-1-3	6.9	3.23	.31	7,900	10 ¹⁵	10 ¹³	110	80	11	8
DMD 3-3-3	8.9	2.17	.46	10,800	10 ¹⁵	10 ¹³	115	106	20	13
DMD 3-5-3	10.7	1.64	.61	13,800	10 ¹⁵	10 ¹³	134	160	28	17
DMD 3-7.5-3	13.5	1.28	.78	17,300	10 ¹⁵	10 ¹³	173	234	33	20
DMD 3-10-3	16.1	1.08	.93	19,600	10 ¹⁵	10 ¹³	215	220	42	28
DMD 3-14-3	20.0	.84	1.19	25,400	10 ¹⁵	10 ¹³	337	320	51	38
DMD 5-5-5	15.1	1.30	.77	15,600	10 ¹⁵	10 ¹³	174	169	30	16
DMD 5-7.5-5	17.5	1.14	.88	18,700	10 ¹⁵	10 ¹³	207	197	40	23
DMD 5-10-5	20.3	.98	1.02	21,700	10 ¹⁵	10 ¹³	240	225	51	30
DMD 5-14-5	23.8	.78	1.28	21,500	10 ¹⁵	10 ¹³	250	230	60	40

Availability

DMD F flexible laminates are available as master rolls and in standard trimmed rolls 36" wide from. Custom topcoats and adhesives are available on this product. This product is available from Von Roll USA, Inc. or from authorized Von Roll distributors. For the name of your distributor or for more information on this product, contact our Customer Service department, (518) 344-7100.

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the affiliated companies of Von Roll Holding Ltd. (underneath referred as Von Roll). Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Von Roll does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Von Roll expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Von Roll makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Von Roll shall in no event be liable for incidental, exemplary, punitive or consequential damages.

