

mica tapes

Mica Mat® 77956

- ▶ Excellent flexibility
- ▶ Non-woven glass support
- ▶ Excellent electrical properties
- ▶ Good voltage endurance characteristics
- ▶ Fully cured binder for sealed coil applications

General description

MICA MAT® 77956 is a 6 mil thick mica paper tape with non-woven glass reinforcement and PET film on both sides. The fully cured polyester binder is very flexible. This construction permits increased mica content per unit thickness over conventionally reinforced, woven glass products, which results in greater voltage endurance protection. The non-woven glass backing also allows the tape version of this products to pull down flat and tight, even around irregular surfaces such as the "nose" of a coil.

Application

MICA MAT® 77956 tapes and wrappers are suggested for use as turn and ground insulation on AC stator coils, and as insulation for high voltage flexible leads. These products are compatible with a wide range of dipping and impregnating varnishes (polyester and epoxy).

Processing

MICA MAT® 77956 tapes and wrappers may be applied by either hand or machine taping, with the glass reinforcement to the outside of the coil for maximum mechanical strength. The resin binder in this product is fully cured. The selection of a cure cycle is governed by varnish used in processing.

Shelf life

MICA MAT® 77956 tapes have exhibited no shelf like limitations for a period of one year when stored under normal conditions; 77°F (25°C) and 50% relative humidity.

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.

Standards

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.

Order Data

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.

Packaging

MICA MAT® 77956 tapes and wrappers are available as slit tape or wrapper, ½ inch to 38 inch in width (12.7 mm to 96.5 mm). Standard width tolerance on slit tape is + 0.032 inch.

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.

		Value	Test norm
Dimensions			
Polyester film	mils (mm)	0.25 (0.0063)	
Thickness	mils (mm)	5.8 (0.147) ± 0.8 (0.020)	ASTM D-374C
Non-woven Glass	mils (mm)	1.3 (0.033)	
2nd polyester film	mils (mm)	0.25 (0.0063)	
Mica Mat	mils (mm)	2.6 (0.066)	
Weight			
Total weight	lbs/syd (g/m ²)	0.38 (206)	
Bonding agent		Polyester	
Mica Mat weight	g/m ²	109	
Coverage	yd ² /lb (m ² /kg)	2.63 (4.85)	
Mechanical properties			
Tensile strength	lb/in (N/cm), avg.	80 (140)	ASTM D-828
Elongation	%	<2	
Electrical properties			
Dielectric strength, Short Time	V/mil(kV/mm)	>1200 (47)	ASTM D-149
Mechanical properties			
Stiffness	mg	600	Gurley