



Super 20 Electrical Tape

Flame-retardant epoxy film with acrylic, pressure-sensitive adhesive

Data Sheet

- Conformable
- High dielectric strength
- Flame retardant
- UL Recognized to 155° C

3M™ Super 20 Electrical Tape offers flexibility and conformability for easy handling and application. The acrylic adhesive offers solvent resistance without a thermosetting bake cycle; in addition it meets the rigid flame-retardancy requirements of the Component Test Program of UL 510. In application, the tape maintains good electrical properties after elongation. 3M Super 20 also maintains good mechanical and electrical properties as tested for UL recognition at 155°C.

The tape is suggested for use in wrapping relays, coils, transformers, bobbin-wound subfractional horsepower shaded-pole motors and stick-wound coils. It can also be used for holding in fractional horsepower motors, arbor-wound coils and wire harnesses.

UL Component Recognition

- Temperatures not exceeding 155°C
- Flame retardant per UL 510

UL File Number E17385, Guide OANZ2. Underwriters Laboratories (UL) recognized products have been evaluated for use as components of end-product equipment that is listed or classified by UL.

To achieve Underwriters Laboratories recognition, component construction must meet UL specifications and conditions of acceptability for proper and safe use of the component or product.

Typical Properties

Property	Value*
Color	Cream
Thickness	5.0 mils (.127mm)
Tensile Strength	45 lbs./in (79N/10mm)
Elongation	120%
Adhesion to Steel	30 oz/in (3.3 N/10mm)
Shear on Steel ½" by ½" 500 g wt. @ 150°F	1000+ minutes
Dielectric Strength	8000V
Insulation Resistance	>1 x 10 ⁶ megohms
Electrolytic Corrosion Factor ¹	1.0
Flammability ²	Flame Retardant

* Not recommended for specification purposes. Product specifications will be provided upon request.

Test Methods

¹3M Test Method

²UL 510

3M is a trademark of 3M.

Important Notice

All statements, technical information and recommendations related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.

Any statements or recommendations of the Seller which are not contained in the Seller's current publications shall have no force or effect unless contained in an agreement signed by an authorized officer of the Seller. The statements contained herein are made in lieu

of all warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose which warranties are hereby expressly disclaimed.

SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR STRICT LIABILITY, FOR ANY INJURY OR FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS THAT WERE DEFECTIVE.



Electrical Products Division

6801 River Place Blvd.
Austin, TX 78726-9000
800 676 8381
<http://www.3m.com/elpd>

© 3M 1998
78-8124-4852-6(A)