



3M™ Polyimide Film Electrical Tape 1205 with Acrylic Adhesive

Data Sheet

May 2021

Product Description

3M™ Polyimide Film Electrical Tape 1205 is an amber UL recognized flame retardant, 3.2-mil (0.081 mm) thick tape composed of 1-mil (0.025 mm) polyimide film backing coated on one side with a non-corrosive, acrylic pressure-sensitive adhesive.

- Commonly used in wrapping coils, capacitors, wire harnesses, transformers and anchoring leads
- Commonly used in printed circuit board assembly as a solder masking tape
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 155°C (311°F) per UL listing

Properties

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	Amber	Dielectric Breakdown ¹ - Minimum	6000 V
Adhesive	Acrylic	Electrolytic Corrosion Factor ³	1.0
Backing	Polyimide Film	Insulation Resistance ¹ - Minimum	1x10 ¹² Ω
Flame Retardant ²	Pass		
Mechanical Properties	Value Imperial (Metric)		
Backing Thickness - Nominal	1 mil (0.025 mm)		
Total Thickness ¹	3.2 +/- 0.5 mils (0.081 +/- 0.013 mm)		
Adhesion to Steel ¹ - Minimum	20 oz/in (2.2 N/cm)		
Breaking Strength ¹ - Minimum	20 lb/in (35 N/cm)		
Elongation ¹ - Minimum	50%		

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. UL Recognized Flame Retardant per UL510A Standard
3. 3M Test Method ETM-54001 - 1.0 equates to no corrosion observed

Agency Approvals & Self Certifications

- UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385
- For Regulatory information including RoHS, REACH, please visit www.3M.com/regs

Shelf Life & Storage

This product has a 5-year shelf life (from date of manufacture) when stored in humidity-controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

Availability

3M™ Polyimide Film Electrical Tape 1205 available from 3M authorized distributors/converters

Also available from 3M.com/oem or call 1.800.245.3573.

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