



EPS-200 Tubing

Adhesive-Lined, 2:1, Flexible, Polyolefin

Data Sheet

Product Description

3M™ EPS-200 is a 2:1 thin-wall tubing offering the advantages of integral adhesive-lined construction. The tubing is made from a flame-retardant, flexible polyolefin with a thin layer of special thermoplastic adhesive. The heat-shrinkable outer wall is selectively cross-linked while maintaining the high flow and excellent adhesion of the inner sealant liner.

When heated in excess of 121°C (250°F), EPS-200 rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. EPS-200 is rated for operation at -55°C (-67°F) to 110°C (230°F). Adhesive reflow will occur at temperatures above 80°C (176°F).

Typical Applications

EPS-200 offers convenient protection of electronic components, wire splices or bundling of wires. Automotive, truck and marine wiring splices and connections are quickly and easily protected from harsh environments.

Shrink Ratio

EPS-200 Tubing has a 2:1 shrink ratio. When freely recovered, the tubing will shrink to 50% of its original diameter. The recovered wall thickness of the tubing is proportional to the degree of recovery.

Standard Colors

Black. Other colors and clear are available subject to factory quotation. The clear tubing is not flame retardant.

Standard Packaging

Four-foot lengths. Cut pieces and other lengths (including spooled) are available subject to factory quotation.

Ordering Information

Order EPS-200 Tubing by product name, size equivalent to the expanded inside diameter, package type and color. Other sizes are available subject to factory quotation. Always order the largest size that will shrink snugly over the item to be covered.

Example: EPS-200, 3/8", 4 ft., black.

Standard Sizes and Dimensions

Ordering Size	Expanded I.D.		Recovered I.D.		Total Recovered Wall Thickness (Nominal)	Melttable Recovered Wall Thickness (Nominal)
	Minimum in.	(Maximum) (mm)	Minimum in.	(Maximum) (mm)		
1/8	.125	(3,18)	.063	(1,60)	.027 (0,68)	.004 (0,10)
3/16	.187	(4,75)	.093	(2,36)	.027 (0,68)	.004 (0,10)
1/4	.250	(6,35)	.125	(3,18)	.030 (0,76)	.005 (0,13)
3/8	.375	(9,53)	.187	(4,75)	.031 (0,79)	.005 (0,13)
1/2	.500	(12,70)	.250	(6,35)	.032 (0,81)	.006 (0,15)
3/4	.750	(19,05)	.375	(9,53)	.037 (0,94)	.006 (0,15)
1	1.000	(25,40)	.500	(12,70)	.046 (1,17)	.008 (0,20)
1-1/2	1.500	(38,10)	.750	(19,05)	.049 (1,24)	.008 (0,20)
2	2.000	(50,80)	1.000	(25,40)	.060 (1,52)	.015 (0,38)

Typical Properties

Applicable Specification

MIL-DTL-23053/4, Class 2; UL File E-39100

Physical

Tensile Strength 2100 PSI
 Ultimate Elongation 450%
 Longitudinal Change +1, -5%
 Secant Modulus (2%) 17,000 PSI
 Specific Gravity 1.3
 *Heat Aging Elongation 175% (168 hrs. @ 175°C)
 *Heat Shock No dripping, (4 hrs. @ 225°C) flowing, cracking
 *Low Temperature Flexibility (4 hrs. @ -55°C) No cracking
 Flammability Self-extinguish meets UL224 All-Tubing Flame Test (jacket)

Chemical

Corrosion Resistance (Copper mirror) Non-corrosive
 Fungus Resistance Non-nutrient
 Water Absorption 0.3%
 Fluid Resistance Excellent

Adhesive
 Peel Strength, pli
 Polyethylene 30
 PVC 10
 Lead 15
 Aluminum 40
 Corrosive Effect (Copper mirror) Non-corrosive

Electrical

Dielectric Strength 800 V/mil
 Volume Resistivity 10¹⁴ ohm-cm

Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

* Outer wall only.

Limited Warranty – 3M expressly warrants that for a period of ninety days from the date of purchase, 3M static control products will be free of defects in materials (parts) and workmanship (labor). Defects occurring during the warranty period will be repaired or products will be replaced at 3M's option and expense, if 3M receives notice during the warranty period. Defective products must be returned to 3M with proof of purchase date.

Warranty Exclusions – THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESS AND IMPLIED, INCLUDING FITNESS AND MERCHANTABILITY. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean, or repair products.

Limit of Liability – In no event will 3M or Seller be responsible or liable for special, incidental, or consequential losses or damages, whether based in tort or contract. Fulfillment of 3M's warranty obligations will be Customer's exclusive remedy and 3M's and Seller's limit of liability for any breach of warranty or otherwise.

For your nearest distributor or to order, call 1-800-328-1368

3M Electrical Specialties Division

6801 River Place Blvd.
Austin, TX 78726-9000

© 3M March 1997

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru