

1. Information about the goods and manufacturer

Name of Goods

135°C Mil-Spec Thin Wall Flame-retardant Heat Shrink Tubing

Description of Goods

Irradiated Polyolefin Thin Wall Heat Shrink Tubing

Name of Manufacturer or Supplier of the goods

Premier Farnell 150 Armley Road Leeds LS12 2QQ

Tel.: +44 (0) 870 129 8608

Emergency telephone number

+44 (0) 870 202530

2. Chemical Properties

Ingredient	Chemical Formula	Function	Percentage	Supplier	CAS No.
Polyolefin	(CH ₂ CH ₂)n	Main Material	50%	China Sinopec	9002-88-4
Magnesium hydroxide	Mg(OH)2	Flame Retardants	35%	Jinhaohui Material Co., Ltd.	1309-42-8
Brominated flame retardants	-	Flame Retardants	10%	Shanghai Haiyi Co., Ltd	-
Pigment	Pigment	Colorant	5%	Huawangcai Co., Ltd	83524-75-8

2. Chemical Properties

Key Hazards	Toxicological Effects on Heath: After the tubes are ignited, the flame will selfextinguish in a short time. A little fume will give off and have slight harm on the respiratory passage of the human body			
	Influence on Environment: It will cause air pollution when the tubes burn.			
	Physical and Chemical Hazards: Normally it is in tubular shape, and shrink at 70-125°C, which perhaps is harmful.			
	Special Hazards: When roasted or fumigated, the smoke given off will have impact on the eyes and respiratory system, and is harmful to the human body.			
Main symptoms: Weep, sneeze, cough, etc. These symptoms can be relieved through breathing fresh air.				
Hazards generated when burning: The tubing will burn for a short period of time after being ignited.				





4. First-Aid Measures

First-aid measures for exposing in different occasions:

Inhalation : During proper operation, there is no danger caused by inhalation.

: No damage to skin in normal contact. As skin is easily scratched by the Skin contact

tubes, the operators are suggested to put on gloves in operation.

Eye contact Ingestion : Not edible

: It will impact the respiratory System if you inhale smokes generated by the Key harmful effects

burning of the tubes.

Protective measures for the

rescuers

: Wear respiration protection equipment.

: Those who have suffered severe damage in respiratory system should keep Suggestions to doctor

on inhaling fresh air to relieve the symptom.

5. Fire-fighting Measures

Suitable fire-extinguishing

agent

: Dry Powder Extinguisher should be used in order to put out the fire in a short time.

Special harms possibly

incurred in fire-fighting

: Small amount of smoke will give off when the tubes burn, which will impact the

respiratory system of human body.

Special fire-fighting

procedures

: No

6. Emergency measures for leakage

Attentions need to be paid

by individuals

: No

Environmental notice : No Cleaning Method : No

7. Operation and Storage

Operation : The tubes will shrink when heated by oven or heat gun.

: Pack the tubes with cartons properly and place them at a shady place and at normal Storage

temperature.

8. Contact controls and personal protection

: Not harmful Contact controls

Personal protective

measures

: No

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9. Physical and Chemical Properties

Properties			Test Method	Standard
Physical Properties	Tensile strength /MPa		GB/T1040	≥10.4
	Elongation/%		GB/T1040	≥200
	Tensile strength after aging/MPa		UL 224: 158°C × 168hr	≥7.3
	Elongation after aging/%		UL 224: 158°C × 168hr	≥100
	Heat Resistance		UL 224: 250°C × 4hr	No viscidity No Cracking
	Cold blend		UL 224: -30°C × 4hr	No Cracking
Electrical Properties	Dielectric Strength(KV/mm)		GB/T1408	≥15
	Dielectric Withstand	300V	UL 224	No breakdown at 1500V
		600V	UL 224	No breakdown at 2500V
	Volume resistance/Ω·cm		GB/T1410	≥1 × 10 ¹⁴
Chemical Properties	Anti Corrosion		UL 224 158°C × 168hr	PASS
	Copper stability		UL 224 158°C × 168hr	PASS
	Flammability		UL 224	VW-1

10. Stability and Reactivity of the goods

Stability : Irresolvable

Hazardous effects under

special conditions

: If exposed to fire, the products will burn in a short time and give off smoke

Conditions to be avoided

: The products will shrink under high temperature.

Substance to be avoided

Hazardous decomposition

product

: Smoke

: Fire

: No

11. Toxicological Information

Acute Toxicity : No
Partial Effect : No
Allergic Reactions : No
Slow toxicity or long-term toxicity : No

12. Ecological Information

Possible effects on : The products are irresolvable naturally and are not harmful to animals, plants and

environment aquatic life.

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Special Effects





13. Waste Disposal

: It is suggested that he waste be collected to waste-collection station for treatment. Trash disposal

Personal protective

: No measures

14. Transport Information

Regulations on

: No international transportation U.N. code : No Regulations on Domestic : No transportation

Special transportation

: Avoid distortion caused by extrusion and damage caused by edged tools. method and notice

15. Regulation Information

Applicable regulation : UL224

16. Other Information

Reference : CTI/ITS/SGS Test Report

Part Number

FPHS-0XX-XXXX

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