

1. Information about the goods and manufacturer

Name of Goods

Heatshrink Tubing Normal Wall 2:1

Description of Goods

Irradiated Polyolefin Normal Wall Heat Shrink Tubing

Name of Manufacturer or Supplier of the goods

Premier Farnell plc

150 Armley Road, Leeds, LS12 2QQ

+44 (0) 8701 202530

1.4. Emergency telephone number

+44 1865 407333

2. Chemical Properties

Ingredient	Chemical Formula	Function	Percentage	CAS No.
Ethylene-vinyl acetate copolymer	$(C_2H_4)_n(C_4H_6O_2)_m$	Main Material	50%	24937-78-8
Magnesium hydroxide	$Mg(OH)_2$	Flame Retardant Material	35%	1309-42-8
Phosphorus	P	Flame Retardant Material	10%	7723-14-0
Pigment	Pigment	Colorant Material	5%	-
Printing Ink	-	Printing Ink	-	-

3. Hazard Information

Key Hazards

Toxicological Effects on Health: After the tubes are ignited, the flame will self-extinguish 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.

Skin contact	: No damage to skin in normal contact. As skin is easily scratched by the tubes, the operators are suggested to put on gloves in operation.
Eye contact	: No harm.
Ingestion	: Not edible
Key harmful effects	: It will impact the respiratory System if you inhale smokes generated by the burning of the tubes.
Protective measures for the rescuers	: Wear respiration protection equipment.
Suggestions to doctor	: Those who have suffered severe damage in respiratory system should keep 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
Special protective equipment for the fire-fighters	: Normal fire-extinguishing equipment.

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

8. Contact controls and personal protection

Contact controls	: Not harmful
Personal protective measures	: No

9. Physical and Chemical Properties

Properties		Test Method	Test result
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 viscosity No Cracking
	Cold blend	UL 224: -30°C×1hr	No Cracking

Properties			Test Method	Test result
Electrical Properties	Dielectric Strength(KV/mm)		GB/T1040	≥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		FMVSS302	PASS

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	: Fire
Hazardous decomposition product	: Smoke

11. Toxicological Information

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

12. Ecological Information

Possible effects on environment	: The products are irresolvable naturally and are not harmful to animals, plants and aquatic life.
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13. Waste Disposal

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

Regulations on international transportation	: No
U.N. code	: No
Regulations on Domestic transportation	: No
Special transportation method and notice	: Avoid distortion caused by extrusion and damage caused by edged tools.

15. Regulation Information

Applicable regulation	: UL224 (All Except Clear)
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Safety Data Sheet

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16: Other information

NA

Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
13650	13652	13689	13738	15052	15089
13633	13652GRY	13690	13739	15053	15090
13633GRY	13653	13691	13740	15054	15091
13634	13653GRY	13692	13741	15055	15092
13634GRY	13654	13693	13742	15056	15093
13635	13654GRY	13694	13745	15057	15094
13635GRY	13655	13695	13746	15058	15095
13636	13656	13696	13747	15059	15096
13636GRY	13657	13699	13748	15060	15097
13637	13658	13700	13749	15061	15098
13637GRY	13659	13701	13753	15062	15099
13638	13660	13702	13757	15063	15100
13638GRY	13661	13703	13761	15064	15101
13639	13662	13704	13765	15065	15102
13639GRY	13663	13705	13773	15066	15103
13640	13664	13707	13777	15067	15104
13640GRY	13665	13709	13781	15068	15105
13641	13666	13710	13785	15069	15106
13642	13667	13711	15034	15070	15107
13643	13668	13712	15035	15071	15108
13643GRY	13669	13713	15036	15072	15109
13644	13670	13714	15037	15073	15110
13644GRY	13671	13715	15038	15075	15111
13645	13672	13716	15039	15076	15112
13645GRY	13673	13717	15040	15077	15113
13646	13674	13721	15041	15078	15114
13646GRY	13676	13722	15042	15079	15115
13647	13677	13723	15043	15080	15116
13647GRY	13678	13724	15044	15081	15117
13648	13679	13725	15045	15082	15118
13648GRY	13680	13726	15046	15083	15119
13649	13681	13732	15047	15084	15120
13649GRY	13682	13733	15048	15085	15121
13650GRY	13683	13734	15049	15086	15122
13651	13686	13735	15050	15087	15123
13651GRY	13688	13736	15051	15088	15124

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Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
15125	HS510-5M	HS516-1.22M	PP001850	PP001861	PP001886
15126	HS511-1.22M	HS516-5M	PP001851	PP001862	PP001887
15130	HS511-5M	HS517-1.22M	PP001852	PP001876	PP001888
15134	HS512-1.22M	HS517-5M	PP001853	PP001877	PP001889
15138	HS512-5M	HS518-1.22M	PP001854	PP001878	PP001890
15142	HS513-1.22M	HS518-5M	PP001855	PP001879	PP001891
15150	HS513-5M	PP001845	PP001856	PP001880	PP001892
15154	HS514-1.22M	PP001846	PP001857	PP001881	PP001893
15158	HS514-5M	PP001847	PP001858	PP001882	PP001894
15162	HS515-1.22M	PP001848	PP001859	PP001883	PP001895
HS510-1.22M	HS515-5M	PP001849	PP001860	PP001884	PP001896
				PP001885	PP001897

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