

Highly expanded, polyolefin heat-shrinkable tubing

RP-4800 is a radiation-crosslinked polyolefin material with a 4:1 expansion ratio. It was developed for a wide range of applications where a large expansion is required, such as harness repair. This high expansion simplifies installation and speeds repairs. The high expansion of RP-4800 tubing eliminates the need to remove connectors or large

transitions and allows for easy harness assembly and repair. This heat-shrinkable, flexible, flame-retardant tubing is also compatible with Raychem adhesives, providing a complete environmental seal.

RP-4800 tubing has excellent physical and mechanical properties that meet both military and industrial

requirements. It is highly abrasion-resistant and shows no significant degradation when exposed to common solvents and chemicals, including aviation fuel and hydraulic fluid.

RP-4800 tubing remains flexible at low temperatures and, for short periods, can withstand temperatures of up to 300°C without dripping or flowing.

Temperature rating

Full recovery temperature:	121°C
Continuous operating temperature:	-55°C to 135°C

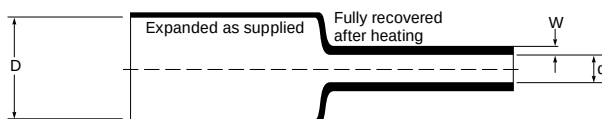
Specifications*



Type	Raychem	Military	UL
RP-4800	RT-1122	AMS-DTL-23053/5, Class 1	E35586

*When ordering, always specify latest issue.

Dimensions (millimeters/inches)



Part number	Inside diameter				Wall thickness	
	D (min.) Expanded as supplied		d (max.) Recovered after heating		W Recovered after heating**	
RP-4800-No.1	25.40	1.00	6.99	0.275	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.2	50.80	2.00	13.97	0.550	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.3	76.20	3.00	20.57	0.810	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.4	101.60	4.00	26.67	1.050	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.5	25.40	1.00	11.74	0.462	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.6	60.33	2.37	17.27	0.680	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.7	76.20	3.00	21.34	0.840	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.8	95.25	3.75	23.62	0.930	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.9	114.30	4.50	36.83	1.450	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.10	38.10	1.50	9.53	0.375	1.14 ± 0.18	0.045 ± 0.007
RP-4800-No.11	19.05	0.75	4.57	0.180	1.14 ± 0.18	0.045 ± 0.007

**Wall thickness will be less if recovery is restricted during shrinkage.

Ordering information

Colors	Standard	Black
	Nonstandard	Brown, red, orange, yellow, green, blue, violet, gray, and white
Size selection	Always order the largest size that will shrink snugly over the component being covered.	
Standard packaging	On spools or in 4-foot lengths	
Ordering description	Specify product name, size, and color; for example, RP-4800-No.6-0 (0=Black).	

Specification values

	Property	Unit	Requirement	Method of test
Physical	Dimensions	mm (<i>inches</i>)	See reverse	ASTM D 2671
	Longitudinal change	percent	+0, -10	ASTM D 2671
	Tensile strength	psi (<i>MPa</i>)	1500 (10.3) minimum	ASTM D 2671
	Ultimate elongation	percent	200 minimum	ASTM D 2671
	Secant modulus (expanded)	psi (<i>MPa</i>)	2.5 x 10 ⁴ (172) maximum	ASTM D 2671
	Specific gravity		1.35 maximum	ASTM D 2671
	Low-temperature flexibility (4 hours at -55°C/-67°F)		No cracking	See note below
	Heat shock (4 hours at 250°C/482°F)		No dripping, flowing or cracking	See note below
	Heat resistance (336 hours at 175°C/347°F)			ASTM D 2671
Electrical	Followed by test for:			
	Ultimate elongation	percent	150 minimum	ASTM D 2671
	Dielectric strength	volts/mil (<i>volts/mm</i>)	500 (19,680) minimum	ASTM D 2671
Chemical	Volume resistivity	ohm-cm	10 ¹⁴ minimum	ASTM D 2671
	Corrosive effect (16 hours at 175°C/347°F)		No removal of copper	See note below
	Copper stability (168 hours at 160°C/320°F)		No brittleness, glazing, cracking, or severe discoloration of tubing.	See note below
	Followed by test for:			
	Ultimate elongation	percent	200 minimum	ASTM D 2671
	Flammability, average time of burning	seconds	60 maximum 25% maximum flag burn	ASTM D 2671 Procedure B
	Fungus resistance		Rating of 1 or less	ASTM G 21
	Water absorption (24 hours at 23°C/73°F)	percent	0.5 maximum	ASTM D 2671
	Fluid resistance (24 hours at 23°C/73°F) in: JP-8 fuel (MIL-T-5624) Skydrol 500 Hydraulic fluid (MIL-H-5606) Aviation gasoline 100/300 (MIL-G-5572) Water			ASTM D 2671
	Followed by tests for:			
	Dielectric strength	volts/mil (<i>volts/mm</i>)	400 (15,760) minimum	ASTM D 2671
	Tensile strength	psi (<i>MPa</i>)	1000 (6.9) minimum	ASTM D 2671

Note: Consult RT-1122 for specific details about test procedures.

Skydrol is a trademark of Monsanto Company.

Raychem is a trademark of Tyco Electronics Corporation.

Users should independently evaluate the suitability of the product for their application.

Tyco Electronics Corporation

300 Constitution Drive
Menlo Park, CA 94025-1164
USA
Tel: (800) 926-2425 (US & Canada)
Tel: +1 (650) 361-3860 (All other countries)

Faraday Road
Dorcan, Swindon, SN3 5HH
United Kingdom
Tel: +44 1793 528171

3816 Noborito, Tama-ku
Kawasaki, Kanagawa 214-8533
Japan
Tel: +81 44 900 5102

Asia Pacific Headquarters
26 Ang Mo Kio, Industrial Park 2
Singapore 569507
Tel: +65 4866 151

All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics Corporation makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Electronics Corporation's only obligations are those in the Standard Terms and Conditions of Sale for these products and in no case will Tyco Electronics Corporation be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Tyco Electronics Corporation's Specifications are subject to change without notice. In addition, Tyco Electronics Corporation reserves the right to make changes in materials or processing without notification to the Buyer which do not affect compliance with any applicable specification.

For more information about this product visit www.tycoelectronics.com

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9