

## **ATUM**

# Raychem

Semi-flexible, general purpose adhesive-lined, moisture proof heat-shrinkable tubing. Provides excellent environmental sealing, 3:1 and 4:1 shrink ratios, high strength bonding, operating temperature -55°C to +110°C.

Atum is a semi-flexible, heatshrinkable tubing with a meltable adhesive inner lining designed to provide moisture proof sealing to a wide range of substrates such as electrical wire vsplices, cable jackets, wire breakouts and electrical components.

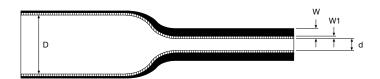
The high shrink ratios mean that only seven sizes are required to cover a wide range of substrate diameters.

Typical applications are environmental sealing of electrical components including wire splices and harness breakouts as well as sealing cable ends against moisture ingress.

## Temperature rating

Operating temperature range:	-55°C to +110°C
Minimum shrink temperature:	+80°C
Minimum full recovery temperature:	+110°C

#### **Ordering information**



Insid	e diame	eter		Wall th	nickness			Standa	rd package		
D (m	in)	d (ma	x)	W (nor	m)	W1 (ne	om)				
Ехра	nded	Recov	/ered	Total v	vall	Meltak	ole wall	1.22m			
as		after		recove	ered	recove	ered	Length			
supp	lied	heatir	ng	after h	eating	after h	eating	quantit	y		
mm		mm		mm		mm		m	m	Ordering description	
3:1	4:1	3:1	4:1	3:1	4:1	3:1	4:1	3:1	4:1	3:1	4:1
3	4	1	1	1.00	1.00	0.5	0.5	30	30	Atum-3/1-color code	Atum-4/1-color code
4.5	-	1.5	-	1.10	=.	0.5	-	30	=	Atum-4.5/1.5-color code	-
6	8	2	2	1.00	1.00	0.5	0.5	30	30	Atum-6/2-color code	Atum-8/2-color code
9	12	3	3	1.40	1.40	0.6	0.6	30	30	Atum-9/3-color code	Atum-12/3-color code
12	16	4	4	1.78	1.78	0.7	0.7	30	30	Atum-12/4-color code	Atum-16/4-color code
19	24	6	6	2.25	2.25	0.8	8.0	30	30	Atum-19/6-color code	Atum-24/6-color code
24	32	8	8	2.54	2.54	1.0	1.0	30	12	Atum-24/8-color code	Atum-32/8-color code
40	52	13	13	2.54	2.54	1.0	1.0	12	6	Atum-40/13-color code	Atum-52/13-color code

#### Standard colors

Standard color	Black	Clear					
Code	0	X (only 3:1	)				
Non Standard color	Red	Yellow	Green	Blue	Grey	White	
Code	2	4	5	6	8	9	

UL E85381 (Black only)

MIL-DTL-23053/4 Class 3 (Black only)

3:1 Shrink ratio only (excludes sizes 9/3, 19/6)

VG 95343 (clear 3:1 only)

VDE 0341/Pt 9012 (clear 3:1 only)

#### **Performance**

Test	Test method	Test requirement 9 MPa (min)			
Tensile strength:	ISO 37				
Ultimate elongation:	ISO 37	300% (min)			
Inner wall adhesion:		60 N per 25 mm (min)			
ATUM to aluminium					
Heat shock:	4 h at 225°C	Pass - no dripping, cracking or flowing of outer wall			
Heat ageing:	168 h at 150°C	Pass - no dripping, cracking or flowing of outer wall			
Low temperature flexibility:	4 h at -55°C	Pass - no cracking			
Dielectric strength:	IEC 243	12 MV/m (min)			
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: 7 MPa (min) Ultimate elongation: 300% (min) Inner wall adhesion: 60 N per 25 mm (min)			
	Test fluids:	Diesel fuel (BS 2869 class A1) Hydraulic fluid (H-515) Lubricating oil (O-149)			

For full product performance details consult Raychem Specification.

#### **Specifications**

Raychem Specification RW 2063. (Black) RK6024 (colors and clear)

Material Safety Data Sheet available on request.

Installation instructions available on request.

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

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