

## Raychem

Atum is a semi-flexible, heat-shrinkable

lining designed to provide moisture proof sealing to a wide range of substrates such as electrical wire vsplices, cable jackets,

tubing with a meltable adhesive inner

- Provides excellent environmental sealing
- · 3:1 and 4:1 shrink ratios
- · High strength bonding
- Operating temperature -55°C to +110°C

### **ATUM**

Semi-flexible, general purpose adhesive-lined, moisture proof heat-shrinkable tubing

wire breakouts and electrical components.

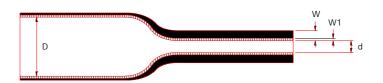
The high shrink ratios mean that only seven sizes are required to cover a wide range of substrate diameters.

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



Inside diameter Wall th		all thickness			Standard package						
D (min) Expanded as supplied		d (max) Recovered after heating		W (nom) Total wall recovered after heating		W1 (nom) Meltable wall recovered after heating		1.22m length quantity			
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-colour code	Atum -4/1-colour code
6	8	2	2	1.00	1.00	0.5	0.5	30	30	Atum -6/2-colour code	Atum -8/2-colour code
9	12	3	3	1.40	1.40	0.6	0.6	30	30	Atum -9/3-colour code	Atum -12/3-colour code
12	16	4	4	1.78	1.78	0.7	0.7	30	30	Atum -12/4-colour code	Atum -16/4-colour code
19	24	6	6	2.25	2.25	0.8	0.8	30	30	Atum -19/6-colour code	Atum -24/6-colour code
24	32	8	8	2.54	2.54	1.0	1.0	30	12	Atum -24/8-colour code	Atum -32/8-colour code
40	52	13	13	2.54	2.54	1.0	1.0	12	6	Atum -40/13-colour code	Atum -52/13-colour code

#### Standard colours

Colour	Black	Clear
Code	0	X (only 3:1)

#### **ATUM**

# Approvals 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	
Tensile strength:	ISO 37	9 MPa (min)	
Ultimate elongation:	ISO 37	300% (min)	
Inner wall adhesion: ATUM to aluminium		60 N per 25 mm (min)	
Heat shock:	4 h at 225°C	Pass - no dripping, crack	ing or flowing of outer wal
Heat ageing:	168 h at 150°C	Pass - no dripping, crack	ing or flowing of outer wal
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: Ultimate elongation: Inner wall adhesion:	7 MPa (min) 300% (min) 60 N per 25 mm (min)
	Test fluids:	Diesel fuel (BS 2869 class A1) Hydraulic fluid (H-515) Lubricating oil (O-149)	

Specifications	
	Raychem Specification RK 6025. (Black) RK6024 (colours and clear)
	Material Safety Data Sheet available on request.
	Installation instructions available on request.

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