

- 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

Atum is a semi-flexible, heat-shrinkable 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.

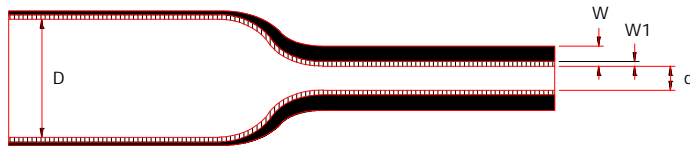
The high shrink ratios mean that only seven sizes are required to cover a wide range of substrate diameters.

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



Inside diameter		Wall thickness				Standard package				Ordering description	
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				3:1	4:1
mm	mm	mm	mm	mm	mm	m	m				
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, 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 RK 6025.

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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