

304 6069
304 78 30

304 6054
304 6047

Raychem

- 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

splices, cable jackets, wire breakouts and electrical components.

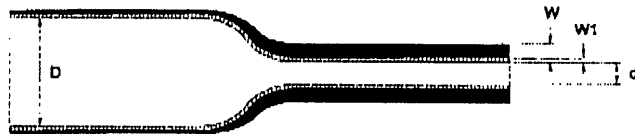
The high shrink ratios mean that only seven sizes are required to cover a wide range of substrate diameters.

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		1.2 m length quantity					
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	36	36	Atum -3/1-colour code	Atum -4/1-colour code
6	8	2	2	1.00	1.00	0.5	0.5	36	36	Atum -6/2-colour code	Atum -8/2-colour code
9	12	3	3	1.40	1.40	0.6	0.6	36	24	Atum -9/3-colour code	Atum -12/3-colour code
12	16	4	4	1.78	1.78	0.7	0.7	24	24	Atum -12/4-colour code	Atum -16/4-colour code
19	24	6	6	2.25	2.25	0.8	0.8	24	24	Atum -19/6-colour code	Atum -24/6-colour code
24	32	8	8	2.54	2.54	1.0	1.0	24	12	Atum -24/8-colour code	Atum -32/8-colour code
40	52	13	13	2.54	2.54	1.0	1.0	12	12	Atum -40/13-colour code	Atum -52/13-colour code

Standard colours

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

ATUM

Approvals

MIL-DTL-23053/4 Class 3 (Black only)
3:1 Shrink ratio only (excludes sizes 9/3, 19/6)
VG 95343 (clear only)
VDE 0341/P1 9012 (clear 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 (F54) Hydraulic fluid (H-515) Lubricating oil (O-149)

For full product performance details consult Raychem Specification RK 6025.

Specifications

Raychem Specification RK 6025.
Material Safety Data Sheet available on request.
Installation instructions available on request.

Raychem and Atum are trademarks of Raychem Corporation.

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

TH 93066 1/98