

# Thin Wall Adhesive Lined

## ADW3



### Technical Data

Properties	Test Method	Typical Values
Cold Impact	SAE-AMS-DTL23053/4:1999 ASTM D746-13 (-40°C)	No Cracking
Heat Shock	SAE-AMS-DTL23053/4:1999 (250°C, 4 hrs)	No Cracking/Dripping
Sealing Efficiency	SAE-AMS-DTL23053/4:1999 (200°C, 3min) Reheat (150°,5min)	No opening on reheat
Tensile Strength (MPa)	SAE-AMS-DTL23053/4:1999 ASTM D638-10	12.8
Elongation at Break (%)	SAE-AMS-DTL23053/4:1999 ASTM D638-10	390
Dielectric Strength (kV/mm)	SAE-AMS-DTL23053/4:1999 ASTM D2671-09	19.7
Volume Resistivity (Ω.cm)	SAE-AMS-DTL23053/4:1999 ASTM D257-07	2x10 <sup>15</sup>
Flammability	SAE-AMS-DTL23053/4:1999 ASTM D2671-09	Pass (Self extinguishing)
Corrosion	SAE-AMS-DTL23053/4:1999 (121°C, 16hrs)	No Corrosion
Water Absorbtion (%)	SAE-AMS-DTL23053/4:1999 ASTM D570-98 (23°C,24hrs)	0.25
Heat Resistance	SAE-AMS-DTL23053/4:1999 (175°C,168hrs)	No Cracks/Dripping/Flowing of outer walls
Longitudinal Shrinkage (%)	UL224	0 ± 5



### Description

ADW3 is manufactured by co-extrusion of Polyolefin and hot-melt adhesive. The product has been developed for applications that require a flame retardant highly flexible thin wall tubing with a higher shrink ratio and where moisture sealing is required.

### Features

- Crosslinked Polyolefin
- Shrink Ratio 3:1
- Adhesive lined
- Operating temperature -45 to 125 °C
- Excellent flame retardant properties VW-1
- Standard colours - Black/Clear  
Special Colours on request
- Minimum shrink temperature, 70 °C
- RoHS /REACH Complaint
- **Military approved**
- **Excellent oil & chemical resistance**

### Applications

- Environmental seal & insulation for electrical and electronic connections
- Bundling of wires and cables for flexible harnesses, including automotive and marine harnesses
- Quick recovery at low temperatures makes it ideal for use in the electronics & telecommunication applications
- Its 3:1 shrink ratio can easily cope with components of varying diameter, with no tendency to split

### Clear

- Abrasion and oil resistant covering for identification labels/tags and write and wrap labels
- Strain relief and environmental seal for electrical and electronic connections where visibility of the connection is required
- Designed for applications where substrates need to remain visible and protected against the ingress of fluids



### Dimensions

Product	Inside Diameter (mm)		Wall Thickness (mm)	Reel Length (m)
	Supplied	Recovered	Recovered	
ADW315	1.6	0.5	0.45	100
ADW331	3.2	1.0	0.90	100
ADW341	4.8	1.5	1.00	100
ADW362	6.4	2.0	1.25	100
ADW393	9.5	3.0	1.40	100
ADW3124	12.7	4.0	1.70	100
ADW3196	19.1	6.0	1.95	100
ADW3258	25.4	8.0	2.05	75
ADW33813	38.1	13.0	2.50	30
ADW35016	50.8	16	2.80	15