



## DERAY®-UMS – ADHESIVE LINED CROSSLINKED POLYOLEFIN

Adhesive lined heat shrink tubing specifically designed to insulate, seal and protect splices and ring terminals in automotive wire harnesses

### FEATURES AND BENEFITS

- High shrink ratio to fit varying splice configurations
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Quick installation
- Shrink ratio: 4:1
- Continuous operating temperature: -40°C to 125°C
- Shrink temperature: 120°C min.

### STANDARDS

- Ford ESLU5T-1A263-AA (CCC41A)
- LV312-3

### TYPICAL APPLICATIONS

- Environmental sealing of in-line splices
- Sealing and strain relief of connectors and ring terminals
- Abrasion protection and electrical insulation of automotive wiring harness splices



# 4:1

SHRINK RATIO

-40°C to 125°C  
(-40°F to 257°F)

CONTINUOUS OPERATING  
TEMPERATURE

### MARKETS:

Automotive, Industrial

### STANDARDS:



# Adhesive lined crosslinked polyolefin

## DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				DELIVERY UNITS	
	Internal Diameter (min) D		Internal Diameter (max) d		Total Wall Thickness (nom) W		Pieces	
	MM	IN	MM	IN	MM	IN	MM	IN
1	6.0	0.236	1.4	0.055	1.45	0.057	50	1.97
2	8.0	0.315	1.6	0.063	1.75	0.069	50	1.97
3	12.0	0.472	2.5	0.098	2.35	0.093	65	2.56
4	18.0	0.709	4.5	0.177	2.65	0.104	75	2.955



## ORDERING

Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.

- Select options:
- Color: Black (BK), Transparent (CL)
- Please specify the product name, order number and options you require
- Example: DERAY®-UMS, size 3, 65 mm, black

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

## FOR FURTHER INFORMATION, PLEASE CONTACT:

Americas: 800 422 6872

Canada: 800 845 6808

Asia Pacific: +86 512 82280099

Europe: +49 2226 9047 355

We advise that customers should separately evaluate the suitability of our products for their particular application. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. Please ask for the latest version of this data sheet. Subject to modification without prior notice.

# Adhesive lined crosslinked polyolefin

## TECHNICAL DATA

TECHNICAL DATA: DERAY®- UMS BLACK	CURRENT VALUES	TEST METHODS
<b>Material</b>		
Material	Polyolefin, modified; free of lead, chromium VI, mercury and cadmium	n/a
Adhesive	EVA, modified	n/a
Surface	smooth	n/a
Specific gravity	1.30 g/cm <sup>3</sup> max.	ASTM-D 792, A-I
Shrink ratio	4:1	n/a
Longitudinal shrinkage	-10% max.	ASTM-D 2671
<b>Mechanical</b>		
Tensile strength	15 MPa	IEC 60684-2
Elongation	370%	IEC 60684-2
<b>Thermal</b>		
Long term ageing (3.000 h at 125°C)	no cracking of outer jacket	LV312-3
Cold bend test	does not break at -40°C	ISO 6722-1
Combustion behaviour	jacket selfextinguishing	ISO 6722-1
Shrink temperature	125°C to 200°C	n/a
Storage temperature	50°C max.	n/a
Continuous operating temperature	-40°C to 125°C	IEC 216
<b>Chemical</b>		
Resistance against chemicals	good	n/a
Water absorption	0.2% max.	VDE 0473
<b>Electrical</b>		
Dielectric strength	1000 V for 60 seconds	FCA PF-10099
Spec. volume resistivity	10 <sup>10</sup> Ω x cm	FCA PF-10099

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Version: 6 2022/OCT/06

