

DERAY®-SPLICEMELT – ADHESIVE LINED CROSSLINKED POLYOLEFIN

Adhesive lined heat shrink tubing specifically designed to insulate, seal and protect in-line splices in automotive wire harnesses and electronic assemblies.

FEATURES AND BENEFITS

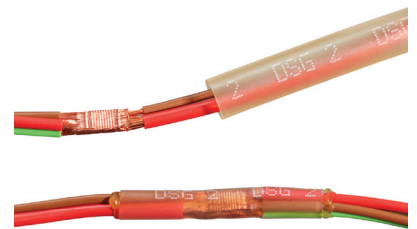
- High shrink ratio to fit varying splice configurations
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Quick installation due to rapid shrinkage
- Shrink ratio: 4:1
- Continuous operating temperature: -40°C to 125°C
- Shrink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

STANDARDS

- Approved to major automotive OEM splice sealing specifications

TYPICAL APPLICATIONS

- Environmental sealing of in-line splices
- Sealing and strain relief of connectors and 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 Aerospace,
Defense, Mass Transit

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 application to be covered. If recovery is restricted the resultant wall thickness will be less than specified.

- Select options:
 - Color: Black (BK), clear (CL)
- Please specify the product name, order number and options you require
- Example:* DERAY®-SpliceMelt, 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: DERAY®-SPLICEMELT BLACK	CURRENT VALUES	TEST METHODS
Material		
Material	Polyolefin, modified; free of lead, chromium VI, mercury and cadmium	n/a
Adhesive	Polyamid, modified	n/a
Surface	smooth	n/a
Specific gravity	1.25 g/cm ³ max.	ASTM-D 792, A-I
Shrink ratio	4:1	n/a
Longitudinal shrinkage	-10% max.	ASTM-D 2671
Mechanical		
Tensile strength	17 MPa	IEC 60684-2
Elongation	500%	IEC 60684-2
Secant modulus	175 MPa max.	ASTM-D 882
Thermal		
Tensile strength after thermal ageing (168 h at 160°C)	12 MPa	IEC 811-1-2
Elongation after thermal ageing (168 h at 160°C)	320%	IEC 811-1-2
Long term ageing (3,000 h at 125°C)	no cracking of outer jacket	n/a
Tensile strength after thermal shock (4 h at 200°C)	14 MPa	IEC 811-1-2
Elongation after thermal shock (4 h at 200°C)	360%	IEC 811-1-2
Cold bend test	does not break at -40°C	ASTM-D 2671 Meth. C
Combustion behaviour	jacket selfextinguishing	ASTM-D 2671 Meth. B
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
Chemical		
Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
Resistance against chemicals	good	n/a
Water absorption	0.65% max.	VDE 0473
Electrical		
Dielectric strength	18 kV/mm	VDE 0303 Part 2
Spec. volume resistivity	10 ¹⁴ Ω x cm	VDE 0303 Part 3

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Adhesive lined crosslinked polyolefin

TECHNICAL DATA: DERAY®-SPLICEMELT TRANSPARENT	CURRENT VALUES	TEST METHODS
Material		
Material	Polyolefin, modified; free of lead, chromium VI, mercury and cadmium	n/a
Adhesive	Polyamid, modified	n/a
Surface	smooth	n/a
Specific gravity	1.00 g/cm ³ max.	ASTM-D 792, A-I
Shrink ratio	4:1	n/a
Longitudinal shrinkage	-10% max.	ASTM-D 2671
Mechanical		
Tensile strength	15 MPa	IEC 60684-2
Elongation	400%	IEC 60684-2
Secant modulus	175 MPa max.	ASTM-D 882
Thermal		
Tensile strength after thermal ageing (168 h at 160°C)	14 MPa	IEC 811-1-2
Elongation after thermal ageing (168 h at 160°C)	400%	IEC 811-1-2
Long term ageing (3,000 h at 125°C)	no cracking of outer jacket	n/a
Tensile strength after thermal shock (4 h at 200°C)	15 MPa	IEC 811-1-2
Elongation after thermal shock (4 h at 200°C)	370%	IEC 811-1-2
Cold bend test	does not break at -40°C	ASTM-D 2671 Meth. C
Combustion behaviour	passed	FMVSS 302
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
Chemical		
Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
Resistance against chemicals	good	n/a
Water absorption	0.55% max.	VDE 0473
Electrical		
Dielectric strength	20 kV/mm	VDE 0303 Part 2
Spec. volume resistivity	10 ¹⁴ Ω x cm	VDE 0303 Part 3

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