

ECO BOX

Thin Wall Crosslinked Polyolefin

Halogen free, economical, heat shrink tubing.



Features and Benefits

- Flexible
- Economical
- General Purpose
- Halogen free alternative to PVC
- Shrink ratio: 2:1
- Continuous operating temperature: -55°C to 125°C
- Shrink temperature: 110°C min.

Typical Applications

- Abrasion protection
- Insulation of electrical or mechanical components
- Protection against mechanical damage and corrosion

2:1

Shrink ratio

-55°C - 125°C

(-67°F to 257°F)

Continuous operating temperature

Markets:

Automotive, Industrial, Aerospace

Standards:



RoHS

ECO BOX

ORDER NUMBER	EXPANDED	RECOVERED		DELIVERY UNITS	
	INTERNAL DIAMETER (MIN) D	INTERNAL DIAMETER (MAX) D	TOTAL WALL THICKNESS (NOM) W	SPOOL*	MINI-SPOOL
	mm (in)	mm (in)	mm (in)	m (ft)	m (ft)
0063	1.6 (1/16)	0.8 (0.031)	0.40 (0.016)	300* (984*)	150 (492)
0094	2.4 (3/32)	1.2 (0.047)	0.50 (0.020)	300* (984*)	150 (492)
0125	3.2 (1/8)	1.6 (0.063)	0.50 (0.020)	300 (984)	150 (492)
0187	4.8 (3/16)	2.4 (0.094)	0.50 (0.020)	300 (984)	75 (246)
0250	6.4 (1/4)	3.2 (0.126)	0.60 (0.024)	300 (984)	75 (246)
0375	9.5 (3/8)	4.8 (0.189)	0.60 (0.024)	150 (492)	75 (246)
0500	12.7 (1/2)	6.4 (0.252)	0.60 (0.024)	100 (328)	50 (164)
0625	16.0 (5/8)	8.0 (0.315)	0.60 (0.024)	- (-)	50 (164)
0750	19.0 (3/4)	9.5 (0.374)	0.80 (0.031)	50 (164)	30 (98)
1000	25.4 (1)	12.7 (0.500)	0.90 (0.035)	50 (164)	30 (98)
1500	38.0 (1 1/2)	19.0 (0.748)	1.00 (0.039)	50 (164)	30 (98)
2000	51.0 (2)	25.4 (1.000)	1.00 (0.043)	50 (164)	30 (98)

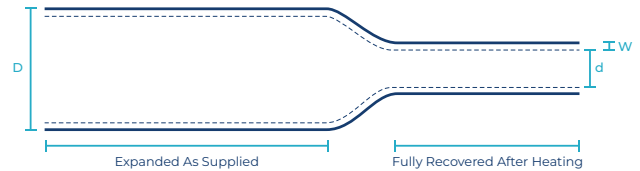
*Delivery unit spool only available for black items

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®-HB, 0500 or 1/2 in, black

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



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Technical data

PROPERTY	CURRENT VALUES	TEST METHODS
MATERIAL		
Material	PE, modified, free of halogen, lead and cadmium	n/a
Surface	semi glossy	n/a
Specific gravity	0.95 g/cm ³ max.	ASTM-D 792, A-1
Shrink ratio	2:1	n/a
Longitudinal shrinkage	-6% max.	ASTM-D 2671
MECHANICAL		
Tensile strength	17 MPa	IEC 60684-2
Elongation	500%	IEC 60684-2
Secant modulus	170 MPa max.	ASTM-D 882
THERMAL		
Tensile strength after thermal ageing (168 h at 150°C)	16 MPa	IEC 811-1-2
Elongation after thermal ageing (168 h at 150°C)	470%	IEC 811-1-2
Tensile strength after thermal shock (4 h at 200°C)	16 MPa	IEC 811-1-2
Elongation after thermal shock (4 h at 200°C)	480%	IEC 811-1-2
Cold bend test	does not break at -55°C	ASTM-D 2671 Meth. C
Combustion behaviour	passed	FMVSS 302
Shrink temperature	110°C min.	n/a
Storage temperature	50°C max.	n/a
Continuous operating temperature	-55°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	0.3% max.	VDE 0473
ELECTRICAL		
Dielectric strength	20 kV/mm	VDE 0303 Part 2
Spec. volume resistivity	10 ¹⁵ Ω x cm	VDE 0303 Part 3