

SLEEVE IT Limited

DERAY I 3000

Flexible thin wall, multi purpose polyolefin heat shrink tubing, designed for electrical, automotive, industrial and pipe applications requiring electrical and/or mechanical insulation.

Standard Colours:



Features:

- -55°C to +135°C operating temperature
- Shrink Temperature: +90°C
- 3:1 Shrink Ratio
- MIL VG DEF STAN 59/97
- Flexible
- High Shrink Ratio
- Meets MIL-DTL-23053/5 class 1+2
- Flame Retardant - Except Clear
- Resistant to common fluids and solvents

Physical

Property	Test Method	Typical Performance Coloured	Typical Performance Clear
Tensile Strength	IEC 60684-2	17 Mpa	20Mpa
Elongation	IEC 60684-2	500%	550%
Longitudinal Change	ASTM-D 2671	+/-10% Max	+/-10% max
Secant Modulus	ASTM-D 882	175Mpa max.	175 MPa max
Specific Gravity	ASTM-D792,A-1	1.3 g/cm	1.0g/cm
Elongation after Heat Aging (168 hrs at 175°C)	ASTM-D 2671	300%	500%
Tensile Strength after Heat Aging (168 hrs at 175°C)	ASTM-D 2671	13 Mpa	18 Mpa
Elongation after Heat Shock (4hrs at 250°C)	ASTM-D 2671	No Cracking or flowing	No cracking or flowing
Tensile Strength after Heat Shock (4hrs at 250°C)	IEC 811-1-3	19 Mpa	15Mpa
Low Temperature Flexibility -55°C	ASTM-D 2671 Meth.C	No Break at	
Flammability	No Break at -55°C		
UL224(Colours)	FMVSS302(Clear)	Pass	
	Flame retardant		

Electrical

Property	Test Method	Typical Performance Coloured	Typical Performance Clear
Dielectric Strength	VDE 0303 Part 2	24 kV/mm	24 kV/mm
Volume Resistivity	VDE 0303 Part 3		

Chemical

Property	Test Method	Typical Performance Coloured	Typical Performance Clear
Corrosive Action	ASTM-D2671Meth.A	Non-Corrosive	Non-Corrosive
Copper Compatibility	ASTM-D2671Meth.B	Non-Corrosive	Non-Corrosive
Chemical Resistance		Good	Good
Water Absorption	VDE-0472	0.20%	0.20%
Printability	Hot Stamp	Ink Jet	Offset
	Very Good	Good	Good

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Dimensions

Internal Diameter		Internal Diameter (Max) mm	Wall Thickness (nom) mm	Black		Black & Colours		Lengths 1.22m pcs
(Min) mm	(Min) in			Reel (m)	Style	Reel (m)	Style	
1.6		1/16	0.5	0.45	300	0	150	O 25
3.2	1/8	1.0	0.55	300	0	150	0	25
4.8	3/16	1.5	0.60	300	0	75	0	25
6.4	1/4	2.0	0.65	300	O	75	O	10
9.5	3/8	3.0	0.75	150	O	75	O	10
12.7	1/2	4.0	0.75	100	O	50	F	10
19.0	3/4	6.0	0.85	50	F	30	F	10
25.4	1	8.0	1.00	50	F	30	F	10
39.0	1 1/2	13.0	1.15	50	F	30	F	-

O: Airfilled F: Flat O**: black only (colours flattened) R: Upon Request

Code Example: EP 0012BK300MR Product, Size, Colour and reel length required