

DERAY®-ITW

Ultra thin wall, very flexible
heat shrink tubing

Features

- Very flexible
- Flame retardant
- Continuous Operating
Temperature: -55°C to 135°C
- Shrink Temperature: 90°C



Single Wall



2:1
Shrink Ratio

DERAY®-ITW

Dimensions

EXPANDED		RECOVERED		DELIVERY UNITS		
INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) D	WALL THICKNESS (NOM) w	Black & Clear Spool Length Style*		Lengths 1.22 m
mm	IN	mm	mm	m		pcs.
2,5	-	0,8	0,30	300	o	-
4,0	-	1,6	0,30	300	o	-
5,6	-	2,4	0,30	300	o	-
8,1	-	3,2	0,35	150	o	-
11,0	-	4,8	0,35	150	o	-
15,0	-	6,4	0,35	100	—	-
20,0	-	9,5	0,45	50	—	-
26,0	-	12,7	0,50	50	—	-

* o = airfilled or oval — = flattened

Technical Data

Physical

Property	Test Method	Typical Performance coloured	Typical Performance clear
Tensile Strength	IEC 60684-2	17 MPa	20 MPa
Elongation	IEC 60684-2	500%	550%
Longitudinal Change	ASTM-D 2671	± 10% max.	± 10% max.
Secant Modulus	ASTM-D 882	175 MPa max.	175 MPa max.
Specific Gravity	ASTM-D 792, A-I	1,3 g/cm ³	1,0 g/cm ³
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 (4 hrs at 200°C)	IEC 811-1-2	480%	530%
Tensile Strength after Heat Shock (4 hrs at 200°C)	IEC 811-1-2	15 MPa	19 MPa
Low Temperature Flexibility	ASTM-D 2671 Meth. C	does not break at -55°C	does not break at -55°C
Flammability	UL 224 (coloured) FMVSS 302 (clear)	flame retardant	passed

Standard Colours	Special Colours - On Request
clear	black

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	10 ¹⁶ Ω x cm	10 ¹⁶ Ω x cm

Chemical

Property	Test Method	Typical Performance coloured	Typical Performance clear
Corrosive Action	ASTM-D 2671 Meth. A	non-corrosive	non-corrosive
Copper Compatibility	ASTM-D 2671 Meth. 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

Ordering: **Specify the product name** plus each of the following options: 1) Size 2) Colour 3) Total Quantity + Delivery Unit 4) Printing Options
For example: DERAY®-ITW 8,1mm clear, 1.500 mtr., 150m-spool, unprinted