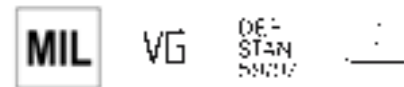


# DERAY®-VT 220

Thin wall Viton®\* fluoroelastomer heat shrink tubing, ideal for protecting electronic components in high temperature systems



PAN

## Features

- Very flexible
- Flame retardant
- Highly abrasion resistant
- High withstand to corrosive fluids in extreme temperatures
- Meets MIL - DTL - 23053/13
- Continuous Operating Temperature: -55°C to 220°C
- Shrink Temperature: 175°C

\* Viton® is a registered trademark of du Pont de Nemours and Co. Inc.



## Dimensions

EXPANDED		RECOVERED		DELIVERY UNITS		
INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) D	WALL THICKNESS (NOM) w	Black Spool Length	Style*	Lengths 1.22 m
mm	IN	mm	mm		m	
3,2	1/8	1,6	0,80	50	o	-
4,8	3/16	2,4	0,90	50	o	-
6,4	1/4	3,2	0,90	50	o	-
9,5	3/8	4,8	1,00	50	o	-
12,7	1/2	6,4	1,20	30	o	-
19,0	3/4	9,5	1,40	30	-	-
25,4	1	12,7	1,80	30	-	-
38,0	1 1/2	19,0	2,40	15	-	-
50,8	2	25,4	2,80	15	-	-

\* o = airfilled or oval      - = flattened

## Technical Data

### Physical

Property	Test Method	Typical Performance
Tensile Strength	IEC 60684-2	18 MPa
Elongation	IEC 60684-2	520%
Longitudinal Change	ASTM-D 2671	10% max.
Secant Modulus	ASTM-D 882	70 MPa max.
Specific Gravity	ASTM-D 792, A-I	1,9 g/cm <sup>3</sup>
Elongation after Heat Aging (168 hrs at 250°C)	IEC 811-1-2	220%
Tensile Strength after Heat Aging (168 hrs at 250°C)	IEC 811-1-2	14 MPa
Elongation after Heat Shock (4 hrs at 300°C)	IEC 811-1-2	250%
Tensile Strength after Heat Shock (4 hrs at 300°C)	IEC 811-1-2	17 MPa
Low Temperature Flexibility	ASTM-D 2671 Meth. C	does not break at -55°C
Flammability	ASTM-D 2671 Proc. A	passed

Standard Colours	Special Colours
black	On Request

### Electrical

Property	Test Method	Typical Performance coloured
Dielectric Strength	VDE 0303 Part 2	16 kV/mm
Volume Resistivity	VDE 0303 Part 3	10 <sup>13</sup> Ω x cm

### Chemical

Property	Test Method	Typical Performance coloured
Corrosive Action	ASTM-D 2671 Meth. A	non-corrosive
Copper Compatibility	ASTM-D 2671 Meth. B	non-corrosive
Chemical Resistance		very good
Water Absorption	VDE 0472	0,20%

Printability	Hot stamp	Ink jet	Offset
very good	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®-VT 220 3/16" black, 1.000 mtr., 50m-spool, printed