



DERAY®-KYF 190 – FLEXIBLE THIN WALL KYNAR®

High temperature Kynar® thin wall heat shrink tubing, with extreme chemical resistance ideal for protection of components in a wide range of severe temperature and harsh environments

FEATURES AND BENEFITS

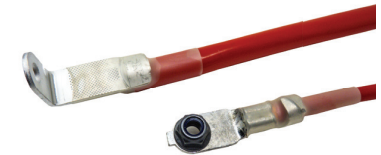
- Highly flame retardant
- Flexible
- High temperature resistance
- Excellent chemical and solvent resistance
- Shrink ratio: 2:1
- Continuous operating temperature: -55°C to 190°C
- Shrink temperature: 175°C min.

STANDARDS

- VW 60360-3
- UL 224 125C VW-1 - UL file # E132910
- QPL SAE AS23053/18 Class 2
- CNES approved and listed in Matrex database
- ECSS-Q-ST-70-02

TYPICAL APPLICATIONS

- High temperature performance that meets or exceeds military, industrial and automotive standards
- Provides excellent electrical insulation
- High flexible and abrasion resistance requiring applications
- Protective see through covering for high temperature and aggressive chemical applications
- Protecting component for connectors and HV cable-lugs in electric vehicles



2:1
SHRINK RATIO

-55°C to 190°C
(-67°F to 374°F)
CONTINUOUS OPERATING
TEMPERATURE

MARKETS:

Automotive, Industrial, Defense,
Aerospace, Mass Transit

STANDARDS:



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Version: 12 2022/JAN/13

SHAWCOR

Flexible thin wall Kynar®

DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				DELIVERY UNITS		
	Internal Diameter (min) D		Internal Diameter (max) d		Total Wall Thickness (nom) W		Spool		Lengths
	MM	IN	MM	IN	MM	IN	M	FT	1.22M / 48IN
0047	1.2	3/64	0.6	0.024	0.24	0.009	300	984	25
0063	1.6	1/16	0.8	0.031	0.24	0.009	300	984	25
0094	2.4	3/32	1.2	0.047	0.24	0.009	300	984	25
0125	3.2	1/8	1.6	0.063	0.24	0.009	300	984	25
0187	4.8	3/16	2.4	0.094	0.24	0.009	300	984	25
0250	6.4	1/4	3.2	0.126	0.30	0.012	300	984	10
0375	9.5	3/8	4.8	0.189	0.30	0.012	150	492	10
0500	12.7	1/2	6.4	0.252	0.30	0.012	100	328	10
0591*	15.0	0.591	6.4	0.252	0.80	0.031	100	328	-
0750	19.0	3/4	9.5	0.374	0.40	0.016	100	328	-
1000	25.4	1	12.7	0.500	0.50	0.020	50	164	-
1500	38.1	1 1/2	19.0	0.748	0.60	0.024	50	164	-

*Size 0591 in black and clear against MOQ



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: Clear (CL), black (BK)
 - Approval: Standard or QPL
- Please specify the product name, order number and options you require
- Example:* DERAY®-KYF 190, 0125 or 1/8 in, clear, QPL

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.

Flexible thin wall Kynar®

TECHNICAL DATA: DERAY®-KYF 190	CURRENT VALUES	TEST METHODS
Material		
Material	Fluoropolymer, modified; free of lead and cadmium	n/a
Surface	smooth	n/a
Specific gravity	1.8 g/cm ³ max.	ASTM-D 792, A-I
Shrink ratio	2:1	n/a
Longitudinal shrinkage	-6% max.	ASTM-D 2671
Mechanical		
Tensile strength	30 MPa	IEC 60684-2
Elongation	450%	IEC 60684-2
Secant modulus	300 MPa max.	ASTM-D 882
Thermal		
Tensile strength after heat aging (168 hr at 215°C)	20 MPa	IEC 811-1-2
Elongation after heat aging (168 hr at 215°C)	300%	IEC 811-1-2
Tensile Strength after heat shock (4 hr at 275°C)	20 MPa	IEC 811-1-2
Elongation after heat shock (4 hr at 275°C)	250%	IEC 811-1-2
Cold bend test	does not break at -55°C	ASTM-D 2671 Meth. C
Combustion behaviour	selfextinguishing	UL 224 VW-1
Shrink temperature	175°C min.	n/a
Storage temperature	50°C max.	n/a
Continuous operating temperature	-55°C to 190°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
Resistance against mould	does not promote mould	ISO 846
Water absorption	0.30%	VDE 0472
Electrical		
Dielectric strength	33 kV/mm	VDE 0303 Part 2
Volume resistivity	10 ¹³ Ω x cm	VDE 0303 Part 3

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