



## GFRSD Heat Shrink Sleeves for Pipeline Corrosion Protection Purpose



### Description

**GFRSD** Anti-corrosion heat shrink sleeve is made of radiation cross-linked polyolefin, extruded inside a layer of hot melt adhesive. It effectively protects exposed metal by sealing it against water, corrosive substance. It is typically used, out of corrosion resistant or heat preservation purposes, to protect the welding repaired mouth of underground or overhead steel tubes for oil and gas transportation and water and pollution discharge. Additionally, it also finds application in sealing pipe flange and hoop against corrosion.

### Features

- Excellent bonding capacity, compatible with different materials like steel, epoxy coating, 2PE, 3PE, 3PP, FBE, heat preservation jacket
- Long service life, good sealing capability
- Simple installation, quick wrap, beneficial to construction
- Preheat the epoxy primer to 40~60°C and begin the shelling-out process. Applicable to both dry and wet film construction.



## Technical Performance

Properties	Unit	Typical data	Test Method
tensile strength	MPa	20	GB/T 1040
elongation at break	%	550	GB/T 1040
Vicat softening point	°C	97.6	GB/T 1633
brittle temperature	°C	< -65	GB/T 5740
electrical strength	MV/m	36.9	GB/T 1408
volume resistivity	Ω·m	1.36×10 <sup>13</sup>	GB/T 1410
ESCR ( F50 , 50°C )	h	≥1000	GB/T 1842
resistance to chemical attack (7days)			
10%HCl	%	100	GB/T 23257-2009
10%NaOH		97	
10%NaCl		98	
Heat aging ( 150°C,21days )			
tensile strength	%	19	GB/T 1040
elongation at break	MPa	530	

## Hot melt Technical Data



Test Method		Unit	Typical data	Test Method
Lss (25°C)		MPa	2.73	GB 7124
Lss (50°C)		MPa	0.5	GB 7124
brittle temperature		°C	< -15	GB/T 23257-2009
peel strength (PE/Steel)	25°C	N/cm	100	GB/T2792
	50°C		30	
peel strength (PE/FBE)	25°C	N/cm	120	
	50°C		35	
peel strength (PE/PE)	25°C	N/cm	110	
	50°C		30	

## Dimensions

Size	Scope of application(mm)	Length(mm)
φ114*500-1.2/0.8	φ114	517
φ219*500-1.2/0.8	φ219	830
φ273*500-1.2/0.8	φ273	1000
φ325*500-1.2/0.8	φ325	1200
φ377*500-1.2/0.8	φ377	1370
φ426*500-1.5/0.8	φ426	1560
φ529*500-1.5/0.8	φ529	1900



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φ610*500-1.5/0.8	φ610	2160
φ720*500-1.5/0.8	φ720	2500
φ813*500-1.5/0.8	φ813	2800
φ914*500-1.5/0.8	φ914	3114
φ1016*500-1.5/0.8	φ1016	3430
φ1220*500-1.5/0.8	φ1220	4075