Non-crystalline Low-viscosity Polyolefin Based Visco-Elastic Tape (ISO21809-3)					
	Viscoelastic Tan	Technical Data Sheet		hesive Tane Non-c	
Product Name	Viscoelastic Tape, viscoelastic Tape, Visco ealstic Body Adhesive Tape, Non-c rystalline Low-viscosity Polyolefin Based				
System Description	Visco-Elastic Tape is a wraparound corrosion protective coating consisting of a modified and reinforced visco-elastic adhesive applied onto a polyethylene carrier film. Visco-elastic can be used for the coating of pipes, coating of risers, coating of flanges, coating of manholes, coating of valves, coating of offshore risers and pillars, underwater coating of risers, coating of welded sockets, repair of all type of coatings,				
Product Features	sealing of pipe and cable conduits, sealing of tank chimes, sealing of pipe casings. Saves time, surface preparation no need blasting and preheating, without applying epoxy primer Super bonding to Steel, and any coating material include PE, PP, FBE and AE Superior cathodic disbondment offers the optimum barrier long term protection against corrosion. Self-healing ability when slightly damaged due to plastic-elastic properties No flowing and dripping on maximum operation temperature Impermeable to water and oxygen Long shelf-life				
Executive S tandard	ISO21809-3:2016 Petroleum and natural gas industries — External coatings for buried or submerged pipelines used in pipeline transportation systems — Part 3: Field joint coatings				
Warranty P eriod	24 Months				
Selection Range	thickness: 1.8mm, 2.0mm Length: 50mm, 75mm, 100mm, 150mm, 200mm, 225mm, 300mm Duration: 10M, 15M, 20M				
Package Specificatio n	Cartons+Pallets	, 20			
Technical Index Property		Test Standard	Outer Wrap Tape (FJC 13A)	Heat Shrinkable Outer Wrap (FJC 13B)	
Visco Ealstic	Body Adhesive Tap)e	,	,	
Max Operating Temperature			≤50°C (FJC 13A-1) ≤70°C (FJC 13A-2) ≤95°C (FJC 13A-3) ≤120°C (FJC	≤50°C (FJC 13B-1) ≤70°C (FJC 13B-2) ≤95°C (FJC 13B-3) ≤120°C (FJC	



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		13A-4)	13B-4)
		-60℃~50℃	-60℃~50℃
		(FJC 13A-1)	(FJC 13B-1)
		-60℃~70℃	-60℃~70℃
Environment Temperature Range		(FJC 13A-2)	(FJC 13B-2)
Environment remperature range		-60℃~95℃	-60℃~95℃
		(FJC 13A-3)	(FJC 13B-3)
		-60℃~120℃	-60℃~120℃
		(FJC 13A-4)	(FJC 13B-4)
Minimum thickness, at 23℃, mm	ISO21809-3 Annex B	1.85 or other	1.85 or other
Glass transition temperature, ℃	ISO11357-2	<-60	<-60
Crystallization temperature, ℃	ISO11357-3	<-100	<-100
Holiday detection	10004000 0 4 0	Na la ali de co	Na balkday
at 5 kV/ mm + 5 kV, max. 25 kV	ISO21809-3 Annex C	No holiday	No holiday
Drip resistance, at	1000100001	No dripping of	No dripping of
Tmax+20℃(minimum 80 °C)	ISO21809-3 Annex K	compound	compound
Adhesion test of reinforced			-
compound with respect to steel and			
to plant coating before and after			
thermal ageing and before and after		Cohesive	Cohesive
hot-water immersion, both for 100		separation	separation
days		mode	mode
to steel, at 23℃, Coverage, N/mm, %	ISO21809-3 Annex H		
to steel, at Tmax+20℃, Coverage,	ISO21809-3 Annex I	0.08, >95	0.08, >95
N/mm, %		0.03, >95	0.03, >95
to plant coating, at 23℃, Coverage,		0.07, >95	0.07, >95
N/mm, %		0.03, >95	0.03, >95
to plant coating, at Tmax+20℃,			
Coverage, N/mm, %			
Adhesion test of compound without			
reinforcement with respect to steel			
and to plant coating before and after			
thermal ageing			
and before and after hot-water			
immersion, both for 100 days	ISO21809-3 Annex I	Leaved	Leaved
minioration, bottle for too days	1002 1000-0 AIIIIGA I	Leaved	Leaved
to steel, at 23℃		Loavou	Loavou
to steel, at 7max+20°C		Leaved	Leaved
to stool, at Thiax-20 C		Leaved	Leaved
to plant coating, at 23℃		Leaveu	Leaveu
to plant coating, at 20 C			



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to plant coating, at Tmax+20℃			
Lap shear resistance, Cohesive			
separation mode Coverage			
coparation mous coverage	ISO21809-3 Annex I	0.006, >95	0.006, >95
at 23℃, N/mm2	10021000 074111001	0.003, >95	0.003, >95
at Tmax+20°C, N/mm2		0.000, - 00	0.000, 700
Specific electrical insulation			
resistance	ISO21809-3 Annex		
R _{S100} , at 23°C, Ω· m2	E E	2.1*108	2.1*108
R _{\$100} /R _{\$70} , at 23 °C		0.87	0.87
Complete Coating	ISO21809-3 Annex		
Impact resistance, at 23℃, J	D 1302 1009-3 Allilex	16	16
Indentation resistance, Test	<u> </u>		
pressure, 1,0N/mm ²			
at 23°C, mm	ISO21809-3 Annex E	1.2	13.5
at Tmax+20°C, mm		0.7	0.7
Cathodic disbondment resistance, at		0.7	0.7
28 days at 23℃, mm		O no holidov	0 no holiday
at Tmax+20°C, mm		0, no holiday	0, no holiday
at max 20 C, min		0, no holiday	0, no holiday
Outon Matarial	ISO21809-3 Annex G ISO21809-3 Annex C	Outer wrap —	Outer wrap —
Outer Material		Polymeric	Heat-shrinkable
Deal stress atheres automorphisms to		tape	material
Peel strength of outer wrap layer to			
outer wrap layer at 23℃, N/mm	ISO21809-3 Annex L	0.05	4.0
		0.25	1.2
at Tmax+20°C, N/mm		0.03	0.3
Peel strength to plant coating, Elastic			
modulus after thermal ageing	ISO21809-3 Annex H	4.00	4.0
at 23°C, N/mm		1.26	1.2
at Tmax+20°C, N/mm		0.13	0.3
Peel strength (P' ₁₀₀ /P' ₀) outer layer to			
outer layer after hot water immersion	ISO21809-3 Annex L		
for 100 days	ISO21809-3 Annex I		
at Track may 05 °C /at 02°C		0.88	0.88
at Tmax, max. 95 °C./at 23 °C			
Peel strength (P ₁₀₀ /P ₀) to plant			
coating after hot water immersion for	ISO21809-3 Annex H		
100 days	ISO21809-3 Annex I		
-4 T 05 %2 / 4 02 %2		0.87	0.87
at Tmax, max. 95 °C./at 23°ℂ			



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Elastic modulus (E ₁₀₀ /E ₀) after thermal ageing for 100 days	ISO527-2		
at Tmax+20℃/at 23℃		0.87	0.87
Peel strength (P' ₁₀₀ /P' ₀) outer wrap			
layer to outer wrap layer after thermal ageing for 100 days	ISO21809-3 M		
ageing for 100 days	10021000-0 W	0.57	0.57
at Tmax+20℃/at 23℃		0.57	0.57
Peel strength to plant coating after			
thermal ageing (P ₁₀₀ /P ₀) for 100 days	ISO21809-3 M		
at Tmax+20℃/at 23℃		0.82	0.82

1. Surface treatment

The surface rust of pipe body is removed by mechanical rust removal equip ment (electric angle mill), and the derusting grade reaches ST2. After rust re moval, the surface of the pipe body is dried by a heat blower.

2. Pipe body wrapped with viscoelastic anti-corrosion tape

Wrap a layer of viscoelastic anti-corrosion tape around the pipe section which has finished surface treatment, and the lap length between the end and the original coating shall not be less than 50mm. The minimum lap length of the joint of anti-corrosion tape is 10 mm. When wrapping the viscoelastic anti-corrosion tape, it is unnecessary to maintain a large tension, and press the edge and overlapping part of the tape by hand.

Installation Instruction

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3. Flange and other special-shaped parts wrapped with viscoelastic anti-corro sion tape

For the anti-corrosion operation at the connection of valve flange, the connecting bolt can be filled with anti-corrosion paste and coated with viscoelastic a nti-corrosion tape.

4. Wrapping outer protective tape

The basic operation method is the same as that of viscoelastic anti-corrosion tape, but the tension shall be maintained when wrapping the outer protective tape. The overlapping amount of joint part is 50%. The two ends of the a nticorrosive pipe section shall be exposed 1-2mm respectively, and the outer protective tape shall not be wrapped.

5. Quality inspection

The quality requirements for installation of viscoelastic anti-corrosion tape and outer protective tape: the surface is flat, overlapping is even, and there is n o bubble, wrinkle and damage.





Installation Picture







Apply Pictures

Manufacturer:

China Sichuan Forever Radiation Technology Co.,Ltd, The main products are 3LPE Heat Shrinkable Ihke Sleeve, HDD Pipeline Shrinkable Sleeve, 2LPE Heat Shrinkable Tape, 3LPE Heat Shrinkable Tubular Sleeves, Polyethylene Pressure-sensitive Adhesive Shrinkable Sleeve, 3LPE & 3LPP Heat Shrinkable Wrapping Tape, Heat Shrinkable Water-proof End Cap, 3LPP Heat Shrinkable Sleeve, Epoxy Primer, Non-crystalline Low-viscosity Polyolefin Based Visco-Elastic Tape, Repair Patch, PE Melt Stick, Heat Shrinkable 3LPE Tape For Pre-insulated Pipe, OEM Heat Shrinkable Material Service, Auto-Matic and Manual Type Installation Tools, Irradiation Service, Third Party Inspection Service.

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