

YT Mica

For safer life



- ISO9001 Quality Management System Certification
- ISO14001 Environmental Management System
- ISO45001 Occupational Health and Safety Management System
- SA8000 Social Responsibility Management System
- IATF16949 Automotive Industry Quality Management System Certification.



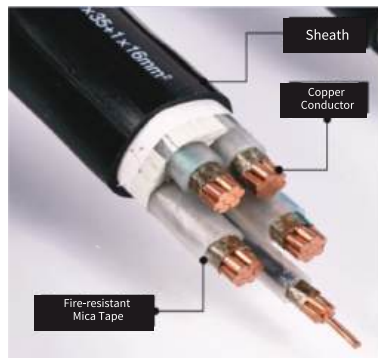
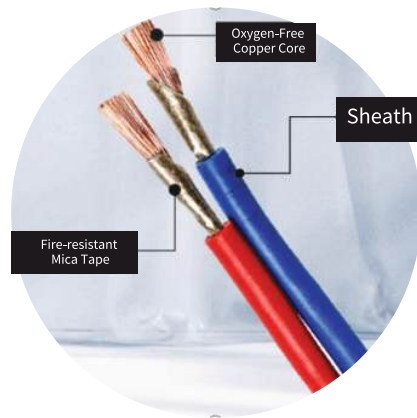
Beijing Yitian Mica Technology Co.,Ltd.
Hunan Remica New Material Co., Ltd.



www.ncnc.cn
www.ytmica.com

COMPANY INTRODUCTION

Beijing Yitian Mica Technology Co.,Ltd.(YITIAN MICA), established in 2003, is a national high - tech enterprise integrating R&D and manufacturing. It primarily engages in the R&D, production, sales, and service of new energy panels, fire-resistant mica tapes, and flame-retardant materials, filling materials , providing industry users with solutions based on fire resistance, flame retardancy, low smoke, and halogen-free properties. It specializes in the production of mica paper for new energy applications, mica sheets for electrical appliances, mica tapes for wire and cable, and mica sheet stamping and hot-pressed shaped parts. These products are widely used in a variety of fields, including household appliances, wire and cable, energy storage, new energy vehicles, metallurgy, chemicals, locomotives, ships, and aerospace. (Insulation and high - temperature resistant materials)



Production Line



System Certification

Test Report



Test Results	Criteria	Result	Remarks
Check rate	100%	100%	Pass
Defect rate	0.00%	0.00%	Pass
Rejection rate	0.00%	0.00%	Pass
Compliance	100%	100%	Pass
Consistency	100%	100%	Pass
Traceability	100%	100%	Pass



Test Results	Criteria	Result	Remarks
Check rate	100%	100%	Pass
Defect rate	0.00%	0.00%	Pass
Rejection rate	0.00%	0.00%	Pass
Compliance	100%	100%	Pass
Consistency	100%	100%	Pass
Traceability	100%	100%	Pass



Test Results	Criteria	Result	Remarks
Check rate	100%	100%	Pass
Defect rate	0.00%	0.00%	Pass
Rejection rate	0.00%	0.00%	Pass
Compliance	100%	100%	Pass
Consistency	100%	100%	Pass
Traceability	100%	100%	Pass



Test Results	Criteria	Result	Remarks
Check rate	100%	100%	Pass
Defect rate	0.00%	0.00%	Pass
Rejection rate	0.00%	0.00%	Pass
Compliance	100%	100%	Pass
Consistency	100%	100%	Pass
Traceability	100%	100%	Pass

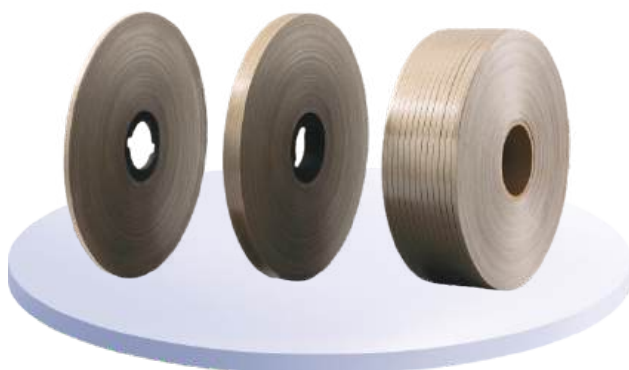


Test Results	Criteria	Result	Remarks
Check rate	100%	100%	Pass
Defect rate	0.00%	0.00%	Pass
Rejection rate	0.00%	0.00%	Pass
Compliance	100%	100%	Pass
Consistency	100%	100%	Pass
Traceability	100%	100%	Pass



01 Phlogopite Mica Tape

Specification	P-G4010E	P-G4012E	P-G4014E	P-G4016E
Appearance	No alien material, no split, scar and holes, no broken folded			
Thickness	0.11±0.02 mm	0.12±0.02 mm	0.13±0.02 mm	0.14±0.02 mm
Width	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm
Weight of Mica Tape	155± 10 g/m ²	175± 10 g/m ²	195± 10 g/m ²	215± 10 g/m ²
Weight of Fiberglass Cloth	32± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²
Weight of Mica Paper	100 ± 5 g/m ²	120 ± 5 g/m ²	140 ± 5 g/m ²	160 ± 5 g/m ²
Breakdown Voltage	>1.3 kV	>1.3 kV	>1.3 kV	>1.3 kV
Tensile Strength	≥ 130 N/10 mm	≥ 130 N/10 mm	≥ 130 N/10 mm	≥ 130 N/10 mm
Binder Content	20 ± 3g/m ²	24 ± 3	24 ± 3	24 ± 3
Fire Grades	750-830℃	750-830℃	750-830℃	750-830℃



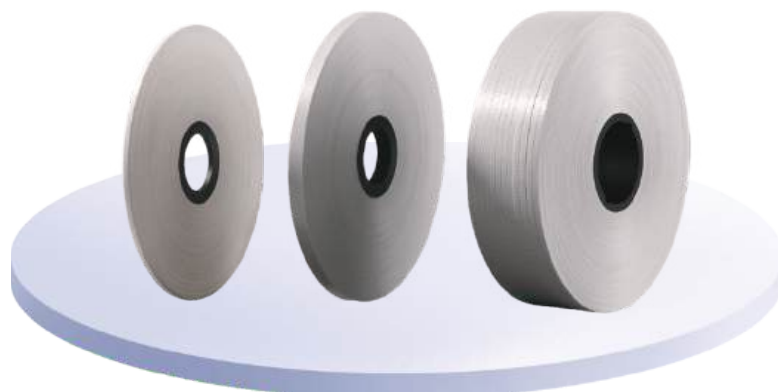
02 Phlogopite Mica Tape

Specification	P-G4510E	P-G4512E	P-G4514E	P-G4516E
Appearance	No alien material, no split, scar and holes, no broken folded			
Thickness	0.11±0.02 mm	0.12±0.02 mm	0.13±0.02 mm	0.14±0.02 mm
Width	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm
Weight of Mica Tape	155± 10 g/m ²	175± 10 g/m ²	195± 10 g/m ²	215± 10 g/m ²
Weight of Fiberglass Cloth	34± 2 g/m ²	34± 2 g/m ²	34± 2 g/m ²	34± 2 g/m ²
Weight of Mica Paper	100 ± 5 g/m ²	120 ± 5 g/m ²	140 ± 5 g/m ²	160 ± 5 g/m ²
Breakdown Voltage	>1.3 kV	>1.3 kV	>1.3 kV	>1.3 kV
Tensile Strength	≥ 150 N/10 mm	≥ 150 N/10 mm	≥ 150 N/10 mm	≥ 150 N/10 mm
Binder Content	20 ± 3g/m ²	24 ± 3	24 ± 3	24 ± 3
Fire Grades	750-830℃	750-830℃	750-830℃	750-830℃



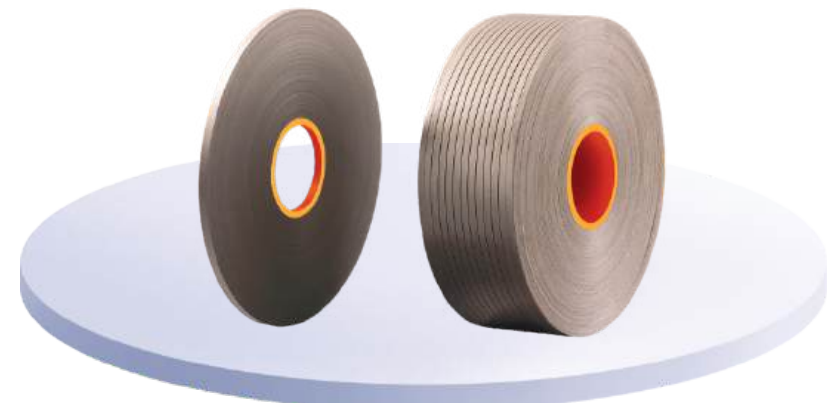
03 Synthetic Mica Tape

Specification	S-G4010E	S-G4012E	S-G4014E	S-G4016E
Appearance	No alien material, no split, scar and holes, no broken folded			
Thickness	0.115±0.02 mm	0.125±0.02 mm	0.135±0.02 mm	0.145±0.02 mm
Width	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm
Weight of Mica Tape	155± 10 g/m ²	175± 10 g/m ²	195± 10 g/m ²	215± 10 g/m ²
Weight of Fiberglass Cloth	32± 2 g/m ²	32± 2 g/m ²	32± 2 g/m ²	32± 2 g/m ²
Weight of Mica Paper	100 ± 5 g/m ²	120 ± 5 g/m ²	140 ± 5 g/m ²	160 ± 5 g/m ²
Breakdown Voltage	>1.3 kV	>1.3 kV	>1.3 kV	>1.3 kV
Tensile Strength	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm
Binder Content	20 ± 3g/m ²	24 ± 3	24 ± 3	24 ± 3
Fire Grades	1000℃	1000℃	1000℃	1000℃



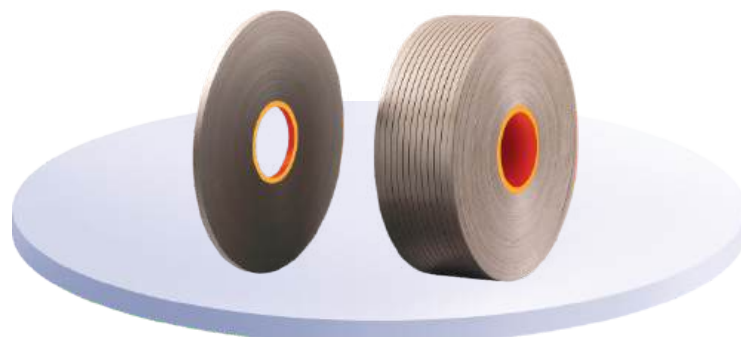
04 Calcined Phlogopite Mica Tape

Specification	CP-G4010E	CP-G4012E	CP-G4014E	CP-G4016E
Appearance	No alien material, no split, scar and holes, no broken folded			
Thickness	0.11±0.02 mm	0.12±0.02 mm	0.13±0.02 mm	0.14±0.02 mm
Width	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm
Weight of Fiberglass Cloth	32± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²
Weight of Mica Tape	155 ±10 g/m ²	175 ±10 g/m ²	195 ±10 g/m ²	215 ±10 g/m ²
Weight of Mica Paper	100 ± 5 g/m ²	120 ± 5 g/m ²	140 ± 5 g/m ²	160 ± 5 g/m ²
Breakdown Voltage	>1.3 kV	>1.3 kV	>1.3 kV	>1.3 kV
Tensile Strength	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm
Binder Content	20 ± 3g/m ²	24 ± 3	24 ± 3	24 ± 3
Fire Grades	750-900℃	950℃	950℃	950℃



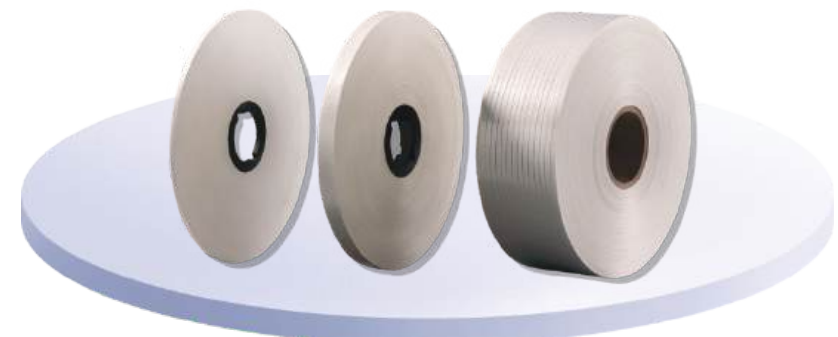
05 Calcined Phlogopite Mica Tape

Specification	CP-G4510E	CP-G4512E	CP-G4514E	CP-G4516E
Appearance	No alien material, no split, scar and holes, no broken folded			
Thickness	0.11±0.02 mm	0.12±0.02 mm	0.13±0.02 mm	0.14±0.02 mm
Width	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm
Weight of Mica Tape	155± 10 g/m ²	175± 10 g/m ²	195± 10 g/m ²	215± 10 g/m ²
Weight of Fiberglass Cloth	34±2 g/m ²	34±2 g/m ²	34±2 g/m ²	34±2 g/m ²
Weight of Mica Paper	100 ± 5 g/m ²	120 ± 5 g/m ²	140 ± 5 g/m ²	160 ± 5 g/m ²
Breakdown Voltage	>1.3 kV	>1.3 kV	>1.3 kV	>1.3 kV
Tensile Strength	≥150 N/10 mm	≥150 N/10 mm	≥150 N/10 mm	≥150 N/10 mm
Binder Content	20 ± 3g/m ²	24 ± 3	24 ± 3	24 ± 3
Fire Grades	750-900℃	950℃	950℃	950℃



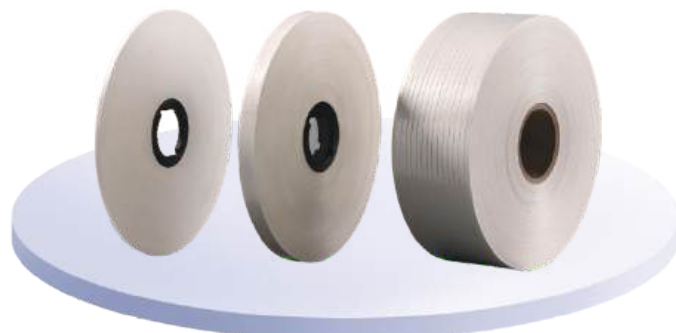
06 PE Film Phlogopite Mica Tape

Specification	P-GF4010E	P-GF4012E	P-G4F014E	P-GF4016E
Appearance	No alien material, no split, scar and holes, no broken folded			
Thickness	0.125±0.02 mm	0.135±0.02 mm	0.145±0.02 mm	0.155±0.02 mm
Width	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm
Weight of Mica Tape	175± 10 g/m ²	175± 10 g/m ²	195± 10 g/m ²	215± 10 g/m ²
Weight of Fiberglass Cloth	32± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²
Weight of PE film	21± 2 g/m ²	21± 2 g/m ²	21± 2 g/m ²	21± 2 g/m ²
Weight of Mica Paper	100 ± 5 g/m ²	120 ± 5 g/m ²	140 ± 5 g/m ²	160 ± 5 g/m ²
Breakdown Voltage	>1.3 kV	>1.3 kV	>1.3 kV	>1.3 kV
Tensile Strength	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm
Binder Content	20 ± 3g/m ²	24 ± 3	24 ± 3	24 ± 3
Fire Grades	750-830℃	750-830℃	750-830℃	750-830℃



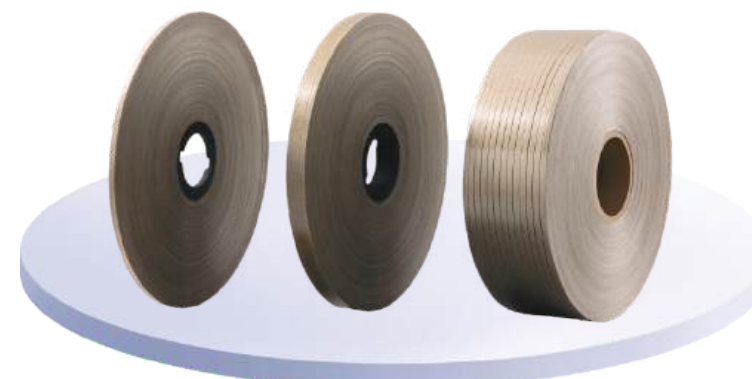
07 PE Film Synthetic Mica Tape

Specification	S-GF4010E	S-GF4012E	S-G4F014E	S-GF4016E
Appearance	No alien material, no split, scar and holes, no broken folded			
Thickness	0.125±0.02 mm	0.135±0.02 mm	0.145±0.02 mm	0.155±0.02 mm
Width	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm	5 6,8,10, 12 ,15,20 ±0.5 mm 35 40 50....±1 mm
Weight of Mica Tape	175± 10 g/m ²	195± 10 g/m ²	215± 10 g/m ²	235± 10 g/m ²
Weight of Fiberglass Cloth	32± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²	32 ± 2 g/m ²
Weight of PE film	21± 2 g/m ²	21± 2 g/m ²	21± 2 g/m ²	21± 2 g/m ²
Weight of Mica Paper	100 ± 5 g/m ²	120 ± 5 g/m ²	140 ± 5 g/m ²	160 ± 5 g/m ²
Breakdown Voltage	>1.3 kV	>1.3 kV	>1.3 kV	>1.3 kV
Tensile Strength	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm	≥130 N/10 mm
Binder Content	20 ± 3g/m ²	24 ± 3	24 ± 3	24 ± 3
Fire Grades	1000℃	1000℃	1000℃	1000℃



08 Phlogopite Mica Tape

Spec	P-GF4018E	P-GG402040E	P-GG402840E	P-GG352030/G3516
	Testing standards			
Appearance	The materials are evenly bonded, without defects such as bubbles, pinholes, and mica paper breaks.			
structure	Film+mica paper+fiberglass cloth	fiberglass cloth paper+fiberglass cloth	fiberglass cloth paper+fiberglass cloth	Film+mica paper+fiberglass cloth
thickness	0.18±0.02 mm	0.2±0.02	0.25±0.02	0.35±0.02 mm
width	as requirement	as requirement	as requirement	as requirement
inner diameter	76±1mm	76±1mm	76±1mm	76±1mm
Outer diameter	<380±10mm	<380±10mm	<380±10mm	<380±10mm
Tensile Strength	≥130N/10mm	≥150N/10mm	≥150N/10mm	≥100N/10mm
Quantification	255±10	295±10	385±10	490± 20 g/m ²
Mica content Weight	180± 5 g/m ²	200± 5 g/m ²	280± 5 g/m ²	360 ± 5 g/m ²
Binder Content Weight	≤17%	≤17%	≤17%	≤17%
Fiberglass cloth Weight	32± 4g/m ²	64± 4g/m ²	64± 4g/m ²	26± 2g/m ²
PE Film Weight	22± 2g/m ²	-	-	22± 2g/m ²
Volume resistivity (normal condition)	≥1.0×10 ¹⁰ Ω.m	≥1.0×10 ¹⁰ Ω.m	≥1.0×10 ¹⁰ Ω.m	≥1.0×10 ¹⁰ Ω.m
Insulation resistance (at fire test temperature)	>1.0×10 ⁶ Ω	>1.0×10 ⁶ Ω	>1.0×10 ⁶ Ω	>1.0×10 ⁶ Ω
Environmental requirements	Comply with RoHS/REACH environmental requirements	Comply with RoHS/REACH environmental requirements	Comply with RoHS/REACH environmental requirements	Comply with RoHS/REACH environmental requirements
Fire resistance	Load rated voltage and no breakdown under 750 ℃ flame for 90min	Load rated voltage and no breakdown under 750 ℃ flame for 90min	Load rated voltage and no breakdown under 750 ℃ flame for 90min	Load rated voltage and no breakdown under 750 ℃ flame for 90min



09 Alkali-free Fiberglass Tape

Performance	Data	Unit	Standard Test
Appearance	The weaving should be even and free of holes, wrong wefts, broken warps, inclusions and other mechanical impurities.	/	Visual inspection
Thickness	0.17mm±0.02 0.2±0.02	mm	Micrometer
Width	30±1.5 According to requirments	mm	Vernier Caliper
Quantitative	220±20	g/m²	Accuracy 0.001g balance weighing
Tensile Strength	≥875	N/25mm	GB/T 7689.5-2013
Oxygen Index	≥80	%	GB/T 2406.2—2009
Smoke Density	≤100	%	GB/T 8627—2007
PH value	≥4.3	/	GB/T17650.2—2021
Conductivity of water extract solution (20℃)	≤15	mS/m	JC/T 170-2012 Appendix B
Aluminoborosilicate glass with alkali metal mass fraction not exceeding 1% (high dielectric properties)	1	%	



10 Flame retardant tape (Halogen-free low smoke)

Performance	Data			Unit	Standard Test
Appearance	Supplied in pads, there should be no damage, the edges should be free of cracks, the surface should be white, and the coating should be smooth and even.			/	Visual inspection
Thickness	0.15±0.02	0.2±0.02	0.25±0.02	mm	Micrometer
Width	±1.0	±1.0	±1.0	mm	Vernier Caliper
Quantitative	170±20	220±20	280±20	g/m²	Accuracy 0.001g balance weighing
Tensile Strength	≥440	≥440	≥440	N/25mm	GB/T 12914-2018
Oxygen Index	≥55			%	GB/T 2406.2—2009
Smoke Density	≤100			%	GB/T 8323.2—2008
PH value	≥4.3			/	GB/T17650.2—2021
Conductivity	≤10			uS/mm	GB/T17650.2—2021



11 PPD Embossed tape

Performance	Standard	Unit	Standard
Outward appearance	The winding is tight and not loose, and the surface is neat.	/	Visual inspection
Thickness	(0.2-0.6) ±0.02	mm	micrometer
Width	±1.5	mm	Vernier caliper
density	≤1.55	g/cm³	GB/T 1033.1—2008
Tensile Strength	≥8	MPa	GB/T 1040.3-2006
Elongation	≥50	%	GB/T 1040.3-2006



12 White non-woven fabric tape

Performance	Standard	Unit	Standard
Outward appearance	The fiber distribution of the non-woven fabric should be even, the surface should be smooth, without wrinkles or damage, the edges should have no cracks, the	/	Visual inspection
Thickness	winding 0.05±0.02		micrometer
	0.12±0.02		
Width	±1.0 20MM 25MM 30MM	mm	Vernier caliper
Weight	0.05mm Thickness ≤50	g/m²	Weighing on a scale
	0.12mm Thickness ≤75		Accuracy 0.001g
Tightness	≥0.25	g/cm³	GB/T 1033.1—2008
Tensile Strength(Portrait)	0.07mm Thickness ≥50	N/15mm	GB/T 12914-2008
	0.12mm Thickness ≥75		
Elongation	≥10	%	GB/T 12914-2008



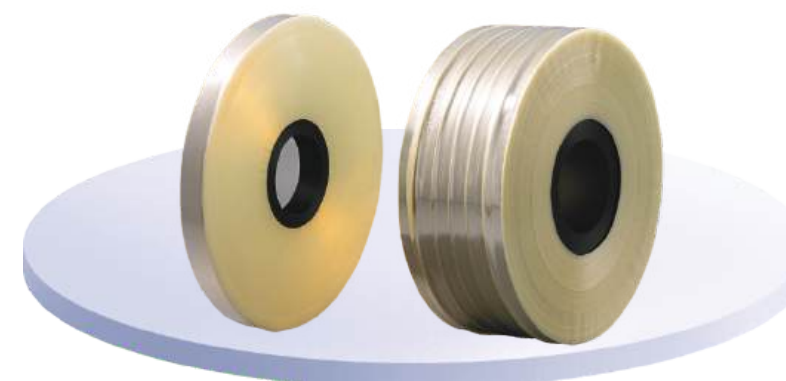
13 Polypropylene tape

Performance	Data	Unit	Standard Test
Appearance	The surface should be free of wrinkles, neat edges, and free of defects such as other mechanical impurities and breaks. Delivered in strips.	/	Visual inspection
Thickness	0.07±0.02		Micrometer
	0.09±0.02		
Width	±1.5	mm	Vernier Caliper
Density	≤0.96	g/cm³	GB/T 1033.1—2008
Tensile Strength	0.07mm thickness≥70	MPa	GB/T 1040.3-2006
	0.09mm thickness ≥30		
Elongation	≥50	%	GB/T 1040.3-2006



14 Polyester Tape (PET Tape)

Performance	Data	Unit	Standard Test
Appearance	The surface of the film should be smooth and clean, and should be free of particles, bubbles, cracks, wrinkles, conductive impurities, and surface dirt (such as oil stains, oil stains). The edges of the film should be neat and undamaged, and should be flat when unfolded. The film should be free of discoloration, brittleness and other aging phenomena.		Visual inspection
Thickness	±0.023 0.036 0.075mm 0.05mm	mm	Micrometer
Width	±1.0	mm	Vernier Caliper
Density	1.39±0.01	g/cm³	GB/T 1033.1—2008
Tensile Strength	≥ 150	MPa	GB/T 13542.4-2009 No.11
Elongation	≥ 80	%	GB/T 13542.4-2009 No.11
Melting Point	≥ 256	°C	IEC61074:1991
Volume resistivity	≥ 1.0x10 ¹⁴	Ω · m	GB/T 1410-2006
surface resistivity	≥ 1.0x10 ¹³	Ω	GB/T 1410-2006
Outer diamer	MAXINUM 450MM	mm	Vernier Caliper
Innerdaimeter	55-58MM 76-78MM 82- 83MM		



15 PET Non-woven fabric tape

Performance	Standard	Unit	Standard
Outward appearance	The fiber distribution of the PET non-woven fabric should be even, the surface should be smooth, without wrinkles or damage, the edges should have no cracks, the winding should be tight,		Visual inspection
Thickness	0.1±0.02		micrometer
	0.1±0.02		
Width	±1.0 20MM 25MM 30MM	mm	Vernier caliper
Weight	70-80	g/m²	Weighing on a scale
			Accuracy 0.001g
Tensile Strength	≥ 75	N/15mm	GB/T 12914-2008
(Portrait)			
Elongation	≥ 20	%	GB/T 12914-2008



16 Alkali-free fiberglass rope

Type	Diameter		Quantitative		Breaking strength	Oxygen index	Combustible content
	mm		g/m		N	%	%
1.5#	1.5	±0.2	4.8	±1.0	≥ 300	≥ 80	≤ 2.0
2#	2		7.2		≥ 400		
3#	3	±0.3	14.4	±2.0	≥ 500		
4#	4		24		≥ 600		
5#	5		36		≥ 800		
6#	6	±0.5	53	±5.0	≥ 1000		
8#	8		82		≥ 1000		
10#	10		125		≥ 1000		
12#	12	±1.0	170	±10.0	≥ 1000		
14#	14		278		≥ 1000		
16#	16		332		≥ 1000		



17 Flame retardant filling rope

Type	Model	Diameter		Weight	Oxygen Index
		mm		g/m	%
single strand	0.3#	1.3		≤2.0	≥27
	0.5#	1.5		≤2.2	
	1#	2		≤2.5	
	2#	2.5		≤4.0	
	4#	3		≤5.0	
	6#	3.5		≤6.0	
	8#	4		≤7.5	
	10#	4.5		≤8.5	
	12#	5		≤10.5	
	14#	5.5		≤12.0	
	16#	6	±0.3	≤15.0	
	18#	6.2		≤16.0	
	20#	7		≤19.0	
	24#	7.2		≤19.5	
	26#	7.5		≤22.0	
	30#	8		≤24.0	
multistrand		Φ9		≤30.0	≥27
		Φ10		≤38.0	
		Φ11	±0.5	≤45.0	
		Φ12		≤52.0	
		Φ13		≤59.0	
		Φ14		≤66.0	
		Φ15	±1.0	≤73.0	
		Φ16		≤81.0	
		Φ18		≤95.0	



18 filling rope (PP white) PP

Type	type	diameter		Weight		Breaking strength
		mm		g/m		N
single	0.3#	1.3	±0.3	1.8	±0.5	≥ 30
	0.5#	1.5		2		≥ 40
	1#	2		2.5		≥ 50
	2#	2.5		4		≥ 60
	4#	3		6	±1.0	≥ 80
	6#	3.5		8		≥ 100
	8#	4		10		≥ 120
	10#	4.5		12		≥ 160
	12#	5		14	±2.0	≥ 180
	14#	5.5		16		≥ 230
	16#	6		18		≥ 250
	18#	6.2		20		≥ 280
	20#	7		24	±3.0	≥ 300
	24#	7.2		28		≥ 400
	26#	7.5		30		≥ 450
	30#	8		34		≥ 480
Multi-stranded		Φ9	±0.5	≤ 40		≥ 550
		Φ10		≤ 50		
		Φ11		≤ 60		
		Φ12		≤ 70		
		Φ13	±1.0	≤ 80		
		Φ14		≤ 100		
		Φ15		≤ 110		
		Φ16		≤ 120		
		Φ18		≤ 155		

