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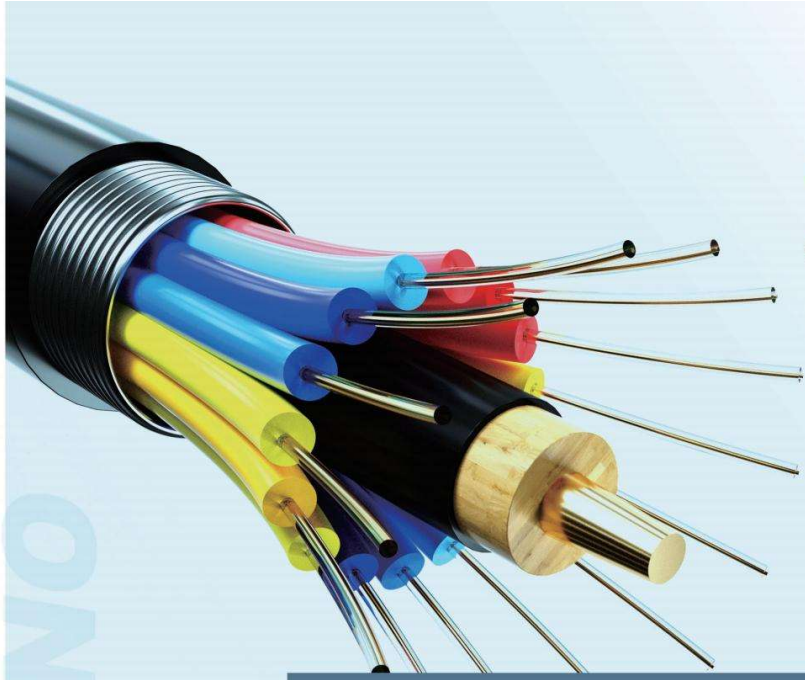


ONE WORLD

ONE WORLD

+ Introduction

Lighting And Connecting The World

Our establishment:

ONE WORLD was established in 2009 and belongs to HONOR GROUP.

Our business:

Provide a one-stop raw material solution for wire and cable manufacturers, helping them produce high-quality, stable, and competitive cable products.

Our products:

ONE WORLD's products mainly include plastic compounds, tape materials, filling materials, yarn / rope materials, and metal materials.

Our advantages:

The reserves of over 200 raw material suppliers in China, combined with the processing experience for raw material demands from more than 400 medium and high voltage cable factories, optical cable factories, LAN cable factories, and other global customers, enable us to provide cost-effective raw material services to our clients.

Professional testing engineers can guide customers in material testing and ensure the production of qualified cable products.

Optical Fiber Filling Gel

Introduction

Optical fiber filling gel is a white translucent paste, which consists of base oil, inorganic filler, thickener, regulator, antioxidant, etc., heated in a certain proportion and homogenized in a reaction kettle, and then colloid grinding, cooling and degassing.

For outdoor optical cable, in order to prevent water and moisture from reducing the strength of the optical fiber and increasing the transmission loss which affects the communication quality, it is necessary to fill the loose tube of the optical cable with water-blocking materials such as optical fiber filling gel to achieve the effect of sealing and waterproofing, anti-stress buffering, and protecting the optical fiber. The quality of the optical fiber filling gel directly affects the stability of the optical fiber transmission performance and the life of optical cable.

We can provide various types of optical fiber filling gel, mainly including ordinary optical fiber filling gel (suitable for filling around optical fibers in ordinary loose tube), filling gel for optical fiber ribbons (suitable for filling around optical fiber ribbons), hydrogen-absorbing optical fiber filling gel (suitable for filling around the optical fiber in metal tube) etc.

The optical fiber filling gel provided by our company has good chemical stability, temperature stability, water-repellency, thixotropy, minimal hydrogen evolution, less bubbles, good compatibility with optical fibers and loose tubes, and is non-toxic and harmless to humans.

Technical Parameters

OW-210 type optical fiber filling gel for ordinary loose tube

No.	Item	Unit	Parameters
1	Appearance	/	Homogeneous, no impurities
2	Dropping point	℃	≥200
3	Density (20℃)	g/cm³	0.83±0.03
4	Cone penetration 25℃ −40℃	1/10mm	435±30 ≥230
5	Color stability (130℃, 120h)	/	≤2.5
6	Oxidation induction time (10℃/min, 190℃)	min	≥30
7	Flashing point	℃	>200
8	Hydrogen evolution (80℃, 24h)	μl/g	≤0.03
9	Oil perspiring (80℃, 24h)	%	≤0.5
10	Evaporation capacity (80℃, 24h)	%	≤0.5
11	Water resistance (23℃, 7×24h)	/	Non-disassembly
12	Acid value	mgKOH/g	≤0.3
13	Water content	%	≤0.01
14	Viscosity (25℃, D=50s⁻¹)	mPa.s	4600±1000
15	Compatibility: A. with optical fiber, optical fiber ribbons coating material (85℃±1℃, 30×24h) B. with loose tubes material (85℃±1℃, 30×24h) variation in tensile strength breaking elongation mass variation	 % % %	 No fading, migration, delamination, cracking Maximum release force: 1.0N～8.9N Average value:1.0N～5.0N No delamination, cracking ≤25 ≤30 ≤3
16	Corrosive (80℃, 14×24h) with copper, aluminum, steel	/	No corrosion points

Note: suitable for filling in ordinary loose tube.

Optical Cable Filling Gel

Introduction

Optical cable filling gel is generally a light yellow translucent paste, which is made of mineral oil, coupling agent, tackifier, antioxidant, etc., in a certain proportion under certain process conditions.

Optical cable filling gel is a gel-like filling compound filled in the gap of the optical cable core, which is aimed to prevent water from seeping longitudinally into the loose tube and the cable core after each sheath is ruptured, and plays the role of sealing and waterproofing, anti-stress buffering, etc.

We can provide various types of optical cable filling gel to meet the needs of different products and different conditions, and effectively solve the problem of water seepage of optical cable under various environmental and climatic conditions.

The optical cable filling gel provided by our company has good chemical stability, temperature stability, water repellency, thixotropy, minimal hydrogen evolution, less bubbles, good compatibility with loose tube, metal composite tape and sheath, and is non-toxic and harmless to humans.

Technical Parameters

OW-310 optical cable filling gel

No.	Item	Unit	Parameters
1	Appearance	/	Homogeneous, no impurities
2	Dropping point	℃	≥150
3	Density (20℃)	g/cm³	0.93±0.03
4	Cone penetration 25℃ −40℃	1/10mm	420±30 ≥100
5	Oxidation induction time (10℃/min, 190℃)	min	≥30
6	Flashing point	℃	>200
7	Hydrogen evolution (80℃, 24h)	μl/g	≤0.03
8	Oil perspiring (80℃, 24h)	%	≤2.0
9	Evaporation capacity (80℃, 24h)	%	≤1.0
10	Absorbency 25℃ (15g sample+10g water)	min	≤3
11	Expansion 25℃ (100g sample+50g water) 5min 24h	%	 ≥15 ≥70
12	Acid value	mgKOH/g	≤1.0
13	Water content	%	≤0.1
14	Viscosity (25℃, D=50s⁻¹)	mPa.s	10000±3000
15	Compatibility: A. with loose tube material (85℃±1℃, 30×24h) B. with loose tube material (85℃±1℃, 45×24h) variation in tensile strength breaking elongation mass variation C. with sheath material (80℃±1℃, 28×24h) variation in tensile strength breaking elongation mass variation D. with metal composite tape (68℃±1℃, 7×24h) with plastic coated steel tape, plastic coated aluminum tape	 % % % % % % 	 No delamination, cracking ≤25 ≤30 ≤3 No cracking ≤25 ≤25 ≤15 No blistering, delamination
16	Corrosive (80℃, 14×24h) with copper, aluminum, steel	/	No corrosion points

Glass Fiber Reinforced Plastic (GFRP) Rods

Introduction

Glass fiber reinforced plastic (GFRP) rods is a high performance composite material made of glass fiber as reinforcement and resin as base material, which is cured and pultruded at a specific temperature. Because of its very high tensile strength and elastic modulus, it is widely used as a reinforcement in ADSS optical cable, FTTH butterfly optical cable and various layer-stranded outdoor optical cable.

The use of GFRP as a reinforcement for optical cable has the following advantages:

1) GFRP is all dielectric, which can avoid lightning strikes and strong electromagnetic field interference.
2) Compared with metal reinforcement, GFRP is compatible with other materials of optical cable and will not produce harmful gas due to corrosion, which will lead to hydrogen loss and affect the transmission performance of optical cable.
3) GFRP has the characteristics of high tensile strength and light weight, which can reduce the weight of optical cable and facilitate the manufacture, transportation and laying of optical cable.

Technical Parameters

Product Specifications

Nominal Diameter (mm)	0.40	0.50	0.90	1.00	1.20	1.30	1.40	1.50	1.60	1.70
	1.80	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
	2.90	3.00	3.10	3.20	3.30	3.50	3.70	4.00	4.50	5.00
Note: More specifications, please contact our sales staff.										

Technical Parameters

Item		Parameters
Density (g/cm³)		2.05～2.15
Tensile strength (MPa)		≥1100
Tensile modulus (GPa)		≥50
Breaking elongation (%)		≤4
Bending strength (MPa)		≥1100
Bending modulus of elasticity (GPa)		≥50
Absorption (%)		≤0.1
Min. instantaneous bend radius (25D, 20℃±5℃)		No burrs, no cracks, no bends, smooth to the touch, can be bounced straight
High temperature bending performance (50D, 100℃±1℃, 120h)		No burrs, no cracks, no bends, smooth to the touch, can be bounced straight
Low temperature bending performance (50D, -40℃±1℃, 120h)		No burrs, no cracks, no bends, smooth to the touch, can be bounced straight
Torsional performance (±360°)		No disintegration
Compatibility of the material with the filling mixture	Appearance	No burrs, no cracks, no bends, smooth to the touch
	Tensile strength (MPa)	≥1100
	Tensile modulus (GPa)	≥50
Linear expansivity (1/℃)		≤8×10⁻⁶

Polybutylene Terephthalate (PBT)

Introduction

PBT is milky white or milky yellow translucent to opaque thermoplastic polyester particles. PBT has excellent mechanical properties, electrical insulation properties, oil resistance, chemical corrosion resistance, easy moulding and low moisture absorption, etc., and is the most commonly used material for optical fiber secondary coating.

In the optical cable, the optical fiber is very fragile. Although the mechanical strength of the optical fiber is improved after the primary coating, the requirements for cabling are still not enough, so the secondary coating is required. The secondary coating is the most important mechanical protection method for the optical fiber in the optical cable manufacturing process, because secondary coating not only provides further mechanical protection against compression and tension, but also creates excess length of optical fiber. Due to its good physical and chemical properties, PBT is usually used as an extrusion material for the secondary coating of optical fibers in outdoor optical cable.

We can provide OW-6013, OW-6015 and other types of PBT material for secondary coating of optical cable.

The PBT we provided has the following characteristics:

1) Good stability. Small shrinkage scale, small volume changing in using, good stability in forming.
2) High mechanical strength. Large modulus, good extension performance, high tensile strength. The anti-lateral pressure value of tube is higher than the standard.
3) High distortion temperature. Excellent distortion performance under large load and small load conditions.
4) Hydrolysis resistance. With excellent resistance to hydrolysis, making optical fiber cable more longer life than standard requirements.
5) Chemical resistance. Excellent chemical resistance and good compatibility with fiber paste and cable paste, not easy to be corroded.

Technical Parameters

OW-6013 PBT

No.	Item	Unit	Standard Requirement	Value
1	Density	g/cm³	1.25～1.35	1.31
2	Melt flow rate (250℃, 2160g)	g/10min	7.0～15.0	12.5
3	Moisture content	%	≤0.05	0.03
4	Water absorption	%	≤0.5	0.3
5	Tensile strength at yield	MPa	≥50	52.5
	Elongation at yield	%	4.0～10.0	4.4
	Breaking elongation	%	≥100	326.5
	Tensile modulus of elasticity	MPa	≥2100	2241
6	Flexural modulus	MPa	≥2200	2243
	Flexural strength	MPa	≥60	76.1
7	Melting point	℃	210～240	216
8	Shore hardness (HD)	/	≥70	73
9	Izod impact (23℃)	kJ/m²	≥5.0	9.7
	Izod impact (-40℃)	kJ/m²	≥4.0	7.7
10	Coefficient of linear expansion (23℃～80℃)	10⁻⁴K⁻¹	≤1.5	1.4
11	Volume resistivity	Ω·cm	≥1.0x10¹⁴	3.1x10¹⁶
12	Heat distortion temperature (1.80MPa)	℃	≥55	58
	Heat distortion temperature (0.45MPa)	℃	≥170	178
13	Thermal hydrolysis			
	Tensile strength at Yield	MPa	≥50	51
	Breaking elongation	%	≥10	100
14	Compatibility between material and filling compounds			
	Tensile strength at yield	MPa	≥50	51.8
	Breaking elongation	%	≥100	139.4
15	Loose tube anti side pressure	N	≥800	825
Note: This type of PBT is a general-purpose optical cable secondary coating material.				

OW-6015 PBT

No.	Item	Unit	Standard Requirement	Value
1	Density	g/cm³	1.25～1.35	1.31
2	Melt flow rate（250℃, 2160g）	g/10min	7.0～15.0	12.6
3	Moisture content	%	≤0.05	0.03
4	Water absorption	%	≤0.5	0.3
5	Tensile strength at yield	MPa	≥50	55.1
	Elongation at yield	%	4.0～10.0	5.2
	Breaking elongation	%	≥100	163
	Tensile Modulus of elasticity	MPa	≥2100	2316
6	Flexural modulus	MPa	≥2200	2311
	Flexural Strength	MPa	≥60	76.7
7	Melting point	℃	210～240	218
8	Shore Hardness （HD）	/	≥70	75
9	Izod impact（23℃）	kJ/㎡	≥5.0	9.4
	Izod impact（-40℃）	kJ/㎡	≥4.0	7.6
10	Coefficient of linear expansion （23℃～80℃）	$10^{-4}K^{-1}$	≤1.5	1.44
11	Volume resistivity	Ω•cm	≥$1.0x10^{14}$	$4.3x10^{16}$
12	Heat distortion temperature（1.80MPa）	℃	≥55	58
	Heat distortion temperature（0.45MPa）	℃	≥170	174
13	Thermal hydrolysis			
	Tensile Strength at Yield	MPa	≥50	54.8
	Breaking elongation	%	≥10	48
14	Compatibility between material and filling compounds			
	Tensile strength at yield	MPa	≥50	54.7
	Breaking elongation	%	≥100	148
15	Loose tube anti side pressure	N	≥800	983
Note: This PBT has high pressure resistance, and is suitable for the production of secondary coating of air-blown micro-optical cable.				

Aramid Yarn

Introduction

Aramid yarn has excellent properties such as ultra-high strength, high modulus, high temperature resistance, acid and alkali resistance, light weight, etc. It also has high corrosion resistance, non-conductivity, and can maintain its inherent stability at higher temperatures. It is a superior non-metallic reinforcing material for optical cable.

The application of aramid yarn in optical cable has two main forms: First is to directly use it as a bearing unit through the unique physical and chemical properties and high strength characteristics of aramid yarn. The second is through further processing, and combine aramid yarn with resin to make aramid reinforced plastic rod (KFRP) used in optical cable structure to improve the application performance of optical cable.

Aramid yarn is often used to replace steel wire as a optical cable strengthening element. Compared with steel wire, the elastic modulus of aramid yarn is 2 to 3 times that of steel wire, the toughness is twice that of steel wire, and the density is only about 1/5 of that of steel wire. Especially in some special occasions, such as high-voltage and other strong electric fields, no metal materials can be used to prevent conduction, and the application of aramid yarn can prevent the optical cable from being disturbed by lightning strikes and strong electromagnetic fields.

We can provide general type and high modulus type aramid yarn to meet the different requirements of indoor/ outdoor optical cable.

The aramid yarn we provided has the following characteristics:

1) Light specific gravity and high modulus.

2) Low elongation, high breaking strength.

3) High temperature resistance, insoluble and non-combustible.

4) Permanent antistatic properties.

Technical Parameters

Item	Parameters				
Linear density (dtex)	1580	3160	3220	6440	8050
Deviation of linear density (%)	≤±3.0	≤±3.0	≤±3.0	≤±3.0	≤±3.0
Breaking strength (N)	≥307	≥614	≥614	≥1150	≥1400
Breaking elongation (%)	2.2～3.2	2.2～3.2	2.2～3.2	2.2～3.2	2.2～3.2
Tensile modulus (GPa)	≥105	≥105	≥105	≥105	≥105
Note: More specifications, please contact our sales staff.					

Glass Fiber Yarn

Introduction

Glass fiber yarn has excellent properties such as high strength, high modulus, high temperature resistance, acid and alkali resistance, and light weight. It also has high corrosion resistance, non-conductivity, which can maintain its inherent stability at higher temperatures. It is a superior non-metallic reinforcing material for optical cable.

The application of glass fiber yarn in optical cable has three main forms: One is to directly use it as a bearing unit through the unique physical and chemical properties and high strength characteristics of glass fiber yarn. The second is through further processing, and combine glass fiber yarn with resin to make aramid reinforced plastic rod (GFRP) used in optical cable structure to improve the application performance of optical cable. The third is to combine glass fiber yarn with water-blocking resin to make water-blocking glass fiber yarn, which is used in optical cable to limit the entry of moisture into the interior of optical cable.

Glass fiber yarn can be used instead of aramid yarn to a certain extent, which not only ensures the high tensile strength of the optical cable, but also reduces the material cost and increases the market competitiveness of optical cable products.

The glass fiber yarn we provided has the following characteristics:

1) Low specific gravity, high modulus.
2) Low elongation, high breaking strength.
3) High temperature resistance, insoluble and non-combustible.
4) Permanent antistatic.

Technical Parameters

Item		Parameters					
Linear density (tex)		300	370	600	785	1200	1800
Fracture toughness (N/tex)		≥0.5					
Breaking elongation (%)		1.7~3.0					
Tensile modulus (GPa)		≥62.5					
FASE (N)	FASE-0.3%	≥24	≥30	≥48	≥63	≥96	≥144
	FASE-0.5%	≥40	≥50	≥80	≥105	≥160	≥240
	FASE-1.0%	≥80	≥100	≥160	≥210	≥320	≥480
TASE-0.5% (N/tex)		≥0.133					
Note: More specifications, please contact our sales staff.							

Water Blocking Yarn

Introduction

Water blocking yarn is a high-tech water blocking product made mainly from polyester industrial filament compounded with cross-linked polyacrylic intumescent to restrict the entry of water into the interior of optical cable or cable. Water blocking yarn can be widely used in various processing layers inside the optical cable and cable, and plays the role of bundling, tightening and water blocking.

Water blocking yarn is a water-swelling yarn with low price. When used in optical cable, they are easy to splice and eliminate the need for cleaning grease in optical fiber splices.

The mechanism of the water blocking yarn is that when the water penetrating into the cable and contact with the water-absorbing resin in the water blocking yarn, the water-absorbing resin rapidly absorbs water and swells, filling the gap between the cable and the optical cable, thus preventing further longitudinal and radial flow of water in the cable or optical cable to achieve the purpose of water blocking.

The water blocking yarn we provided has the following characteristics:

1) Even thickness of water-blocking yarn, even and non-dislodging water-absorbing resin on the yarn, no bonding between layers.
2) With a special winding machine, the rolled water-blocking yarn is evenly arranged, tight and non-loose.
3) High water absorption, high tensile strength, acid and alkali free, non corrosive.
4) With good swelling rate and swelling rate, the water blocking yarn can reach a certain swelling ratio in a short period of time.
5) Good compatibility with other materials in optical cable and cable.

Technical Parameters

Item	Parameters						
Denier (D)	9000	6000	4500	3000	2000	1800	1500
Linear density (m/kg)	1000	1500	2000	3000	4500	5000	6000
Tensile strength (N)	≥250	≥200	≥150	≥100	≥70	≥60	≥50
Breaking elongation (%)	≥12	≥12	≥12	≥12	≥12	≥12	≥12
Swelling speed (ml/g/min)	≥45	≥45	≥55	≥60	≥60	≥60	≥60
Swelling capacity (ml/g)	≥50	≥55	≥55	≥65	≥65	≥65	≥65
Water contain (%)	≤9	≤9	≤9	≤9	≤9	≤9	≤9
Note: More specifications, please contact our sales staff.							

Polyester Binder Yarn

Introduction

In the SZ cabling of optical cable, in order to keep the structure of the cable core stable and prevent the cable core from loosening, it is necessary to use a high-strength polyester yarn to bundle the cable core. In order to improve the water blocking performance of the optical cable, a layer of water blocking tape is often wrapped longitudinally outside the cable core. And in order to prevent the water blocking tape from loosening, a high-strength polyester yarn needs to be tied outside the water blocking tape.

We can provide a kind of binding material suitable for optical cable production - polyester binder yarn. The product has the characteristics of high strength, low thermal shrinkage, small volume, no moisture absorption, high temperature resistance and so on. It is wound by a special binding machine, the yarn is arranged neatly and densely, and the yarn balls does not automatically fall off during high-speed operation, ensuring that the yarn is released reliably, not loose, and does not collapse.

Each specification of polyester binder yarn has standard type and low shrinkage type.

We can also provide polyester yarns of different colors according to customer requirements for color identification of cable.

Technical Parameters

Item	Parameters			
Linear density (dtex)	1110	1670	2220	3330
Tensile strength (N)	≥65	≥95	≥125	≥185
Breaking elongation (%)	≥13 (standard yarn) ≥22 (low shrinkage yarn)			
Heat shrinkage (177℃, 10min, Pretension 0.05cN/Dtex) (%)	4～6 (standard yarn) 0.5～1.5 (low shrinkage yarn)			

Note: More specifications, please contact our sales staff.

Water Blocking Tape

Introduction

Water blocking tape is a modern high-tech water-blocking material with the function of water-absorbing and expansion, which is composed of polyester fiber non-woven fabric and high-speed swelling water-absorbent resin. The excellent water-blocking performance of the water blocking tape mainly comes from the strong water-absorbing performance of the high-speed expansion water-absorbent resin that is evenly distributed inside the product. The polyester fiber non-woven fabric to which the high-speed expansion water-absorbent resin adheres ensures that the water blocking tape has sufficient tensile strength and good longitudinal elongation. At the same time, the good permeability of polyester fiber non-woven fabric makes the water blocking tape expand immediately when exposed to water, and the water-blocking performance is effectively guaranteed.

The water blocking tape can be used to coat the core of communication optical cable, communication cable and power cable to play the role of binding and water-blocking. The use of water blocking tape can reduce the infiltration of water and moisture in the optical cable and cable, and improve the service life of the optical cable and cable. Especially for the dry-type optical cable developed in recent years, the water blocking tape replaces the traditional grease, and there is no need for wipes, solvents and cleaners when preparing the connection of optical cable. The connection time of optical cable is greatly shortened, and the weight of the optical cable can be reduced.

We can provide single-sided/ double-sided water blocking tape. The single-sided water blocking tape is composed of a single layer of polyester fiber non-woven fabric and high-speed expansion water-absorbing resin; The double-sided water blocking tape is composed of polyester fiber non-woven fabric, high-speed expansion water-absorbing resin and polyester fiber non-woven fabric in turn. The single-sided water blocking tape has better water blocking performance because it has no base cloth to block.

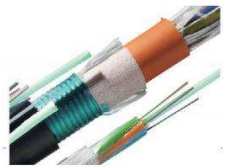
The water blocking tape we provided has the following characteristics:

1) The surface is flat, without wrinkles, notches, flashes.
2) The fiber is evenly distributed, the water blocking powder and the base tape are firmly bonded, without delamination and powder removal.
3) High mechanical strength, easy for wrapping and longitudinal wrapping processing.
4) Strong hygroscopicity, high expansion height, fast expansion rate, and good gel stability.
5) Good heat resistance, high instantaneous temperature resistance, optical fiber cable and cable can maintain stable performance under instantaneous high temperature.
6) High chemical stability, no corrosive components, resistant to bacterial and fungal erosion.

Technical Parameters

Item	Parameters							
	Single-sided water blocking tape			Double-sided water blocking tape				
Nominal thickness (mm)	0.20	0.25	0.30	0.20	0.25	0.30	0.40	0.50
Tensile strength (N/cm)	≥25	≥30	≥30	≥25	≥30	≥30	≥35	≥40
Breaking elongation (%)	≥10	≥10	≥10	≥10	≥10	≥10	≥10	≥10
Expansion speed (mm/min)	≥8	≥8	≥10	≥6	≥8	≥10	≥12	≥12
Expansion height (mm/5min)	≥10	≥10	≥12	≥8	≥10	≥12	≥14	≥14
Water ratio (%)	≤9	≤9	≤9	≤9	≤9	≤9	≤9	≤9
Thermal stability a) Long-term temperature resistance (90℃, 24h) Expansion height (mm) b) Instantaneous high temperature (230℃, 20s) Expansion height (mm)	≥Initial value ≥Initial value							

Note: More specifications, please contact our sales staff.



Film Laminated Water Blocking Tape

Introduction

Film laminated water blocking tape is a modern high-tech water-blocking material with the function of water-absorbing and expansion, which is composed of polyester fiber non-woven fabric, polyester film and high-speed swelling water-absorbent resin. The excellent water-blocking performance of the film laminated water blocking tape mainly comes from the strong water-absorbing performance of the high-speed expansion water-absorbent resin that is evenly distributed inside the product. The polyester fiber non-woven fabric and polyester film to which the high-speed expansion water-absorbent resin adheres ensures that the film laminated water blocking tape has sufficient tensile strength and good longitudinal elongation. Compared with ordinary water blocking tape, the film laminated water blocking tape has higher tensile strength due to the composite of high-strength polyester film, and is more suitable for high-speed wrapping and longitudinal wrapping. At the same time, due to the use of polyester film, when used for the coating of optical cable and cable products filled with ointment in the cable core, it can prevent the penetration of the ointment in the cable core.

The film laminated water blocking tape can be used to coat the core of communication optical cable, communication cable and power cable to play the role of bundling and water blocking. It is especially suitable for the cable core filled with ointment, and can also play a role in preventing the penetration of the ointment. The use of film laminated water blocking tape can reduce the infiltration of water and moisture in the optical cable and cable, and improve the service life of the optical cable and cable.

We can provide single-sided/ double-sided film laminated water blocking tape. The single-sided film laminated water blocking tape is composed of polyester film, high speed expansion water-absorbent resin, and polyester fiber non-woven fabric in turn; The double-sided film laminated water blocking tape is composed of polyester film, polyester fiber non-woven fabric, high speed expansion water-absorbent resin, and polyester fiber non-woven fabric in turn.

The film laminated water blocking tape we provided has the following characteristics:

1) The surface is flat, without wrinkles, notches, flashes.
2) The fiber is evenly distributed, the water blocking powder and the base tape are firmly bonded, without delamination and powder removal.
3) High mechanical strength, easy for wrapping and longitudinal wrapping processing.
4) Strong hygroscopicity, high expansion height, fast expansion rate, and good gel stability.
5) Good heat resistance, high instantaneous temperature resistance, optical fiber cable and cable can maintain stable performance under instantaneous high temperature.
6) High chemical stability, no corrosive components, resistant to bacterial and fungal erosion.

Technical Parameters

Item	Parameters				
	Single-sided film laminated water blocking tape		Double-sided film laminated water blocking tape		
Nominal thickness (mm)	0.25	0.30	0.25	0.30	0.40
Tensile strength (N/cm)	≥35	≥40	≥35	≥40	≥40
Breaking elongation (%)	≥12	≥12	≥12	≥12	≥12
Expansion speed (mm/min)	≥6	≥8	≥6	≥8	≥10
Expansion height (mm/5min)	≥8	≥10	≥8	≥10	≥12
Water ratio (%)	≤9	≤9	≤9	≤9	≤9
Thermal stability a) Long-term temperature resistance (90℃, 24h) Expansion height (mm) b) Instantaneous high temperature (230℃, 20s) Expansion height (mm)	≥Initial value ≥Initial value				
Note: More specifications, please contact our sales staff.					

Ripcord

Introduction

Ripcords are suitable for various types of cables, including power cables, communication cables, network cables, coaxial cables, and more. Their design allows for a quick and easy removal of the cable's outer sheath or insulation without damaging the internal conductors. Made from robust materials, they exhibit excellent durability and maintain high-performance efficiency even through multiple uses. Typically, ripcords are available in two colors, white and yellow, to cater to user preferences.

The ripcord we provided has the following characteristics:

1) The ripcord is twisted together using multiple high-strength polyester yarns, effectively increasing the tensile strength of the cable.
2) The ripcord has a lubricated coating, making it easy to tear.

Technical parameters

Item	Unit	Parameters	
Linear Density	Dtex	2000	3000
Breaking Strength	N	≥90	≥180
Elongation	%	≥10	≥10
Twist	m	165±5	165±5
Note: More specifications, please contact our sales staff.			

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