Honesty and creativity · Win-win cooperation

领为新材料（惠州）有限公司
Linwell New Material(Huizhou) Co., Ltd

雅可思科技（东莞）有限公司
Yakows Technology (Dongguan) Co., Ltd.

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Linwell
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国 内 外 电 力 新 材 料 专 业 制 造 商

Professional manufacturer of new materials for electric power

領為實業有限公司
Linwell Industry Co., Limited

企业简介 COMPANY PROFILE

领为新材料(惠州)有限公司是一家集研发、生产、销售为一体，专业生产各种硅橡胶材料及配套下游硅橡胶产品的企业，产品适用于电力电气化，铁路，变电站，发电厂，核电输变电等电力建设。我们与国家电网、南方电网、上海交大等机构合作研发，目前已成功开发出东南亚、中东、欧美等市场，例如:越南、印尼、印度、伊朗、美国等国家。

工厂和仓库的总面积约为10000平方米，目前的硅橡胶产能为5000吨。我们公司拥有完善的研发团队和严格的质量管理体系，标准工艺配方专业生产电力绝缘子胶，电缆附件胶，绝缘管母丙氟胶，陶瓷阻燃胶，液态发泡胶，导电硅橡胶等一系列产品，为多数国内外电力企业采用。

我们始终坚持产品品质和信誉第一、客户至上的经营原则，不断加强和完善产品服务，尽可能让使用客户满意。

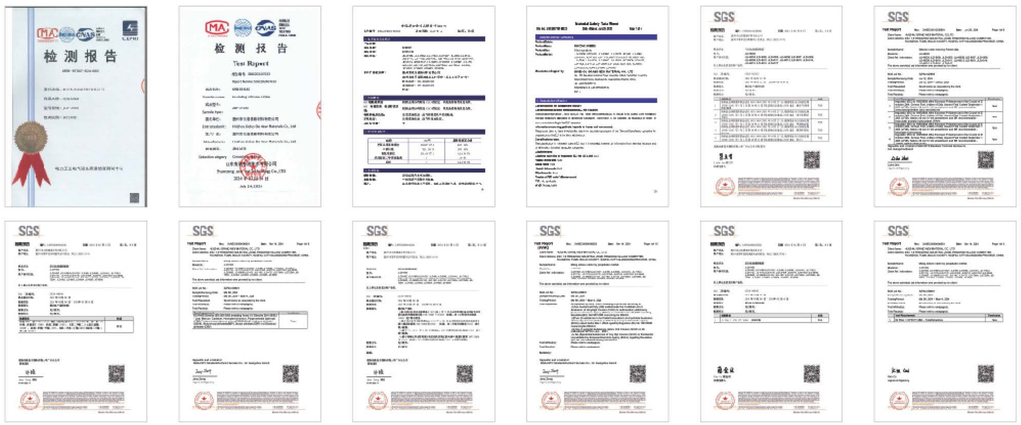
Linwell New Material(Huizhou) Co., Ltd is an enterprise that integrates research and development, production, and sales.specializing in the production of various silicone rubber materials and downstream silicone rubber products. The products aresuitable for power electrification, railways, substations, power plants, nuclear power transmission and transformation, andother power construction projects. We have collaborated with institutions such as State Grid, Southern Power Grid.and Shanghai Jiao Tong University for research and development. Currently, it has successfully developed markets in South-east Asia, the Middle East, Europe, and America, such as Vietnam, Indonesia, India, Iran, and the United States, etc.

The total area of the factory and warehouse is approximately 10.,00o square meters, with a current annual silicone rubberproduction capacity of 5,000 tons. Linwell has a complete R&D team and strict quality management system. withstandard process formulas, it specializes in producing a series of products such as power insulator adhesive, cable accessoryadhesive, insulation tube mother fluorine adhesive, ceramic flame retardant adhesive, liquid foam adhesive, conductivesilicone rubber, etc., which are adopted by most domestic and foreign power enterprises.

Linwell always adhere to the business principle of putting product quality and reputation first, and puttingcustomers first, continuously strengthen and improve our product services, and strive to satisty our customers as much as possible.

领为新材料（惠州）有限公司
Linwell New Material(Huizhou) Co., Ltd

资质证书 CERTIFICATES

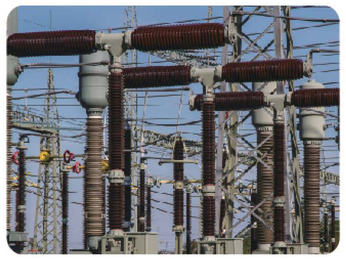


生产和检测设备 PRODUCTION AND TEST EQUIPMENTS

电力绝缘硅橡胶

- 特点：胶料耐高压，耐漏电起痕好，具有优良的耐污秽、耐老化性，及优良的憎水性。
- 应用：适用于注射、模压成型的复合绝缘子、避雷器。

应用范例



典型的性能数据

性能 / 项目	单位	型号		
		LW-3160D	LW-3160Z	LW-3160G
邵氏硬度	Shore A	65±3	65±3	60±3
撕裂强度	kN/m	≥10	≥10	≥12
拉伸强度	Mpa	≥4.0	≥4.5	≥5.0
伸长率	%	≥220	≥220	≥240
定伸永久变形	%	≤4	≤4	≤4
密度	g/cm^3	1.48±0.03	1.46±0.03	1.46±0.03
击穿场强	kV/mm	≥20	≥21	≥22
（1A AC4.5级）耐漏电起痕	mm	≤2.5	≤2.5	≤2.5
介电常数	/	≤5	≤5	≤5
体积电阻率	Ω·cm	1x10^14	2x10^14	2x10^14

Linwell 领为新材料（惠州）有限公司
Linwell New Material(Huizhou) Co., Ltd

ELECTRIC INSULATING SILICONE RUBBER

- Features: High pressure resistance, good leakage and marking resistance, excellent pollution resistance, aging resistance, and excellent hydrophobicity.
- Application: Suitable for injection and molded composite insulators, lightning arresters, etc.

Application

Typical Properties Data

PROPERTY / ITEM	Unit	MODEL NUMBER		
		LW-3160D	LW-3160Z	LW-3160G
Hardness	Shore A	65±3	65±3	60±3
Tear Strength	kN/m	≥10	≥10	≥12
Tensile Strength	Mpa	≥4.0	≥4.5	≥5.0
Elongation	%	≥220	≥220	≥240
Permanent deformation of fixed extension	%	≤4	≤4	≤4
Density	g/cm^3	1.48±0.03	1.46±0.03	1.46±0.03
Breakdown field strength	kV/mm	≥20	≥21	≥22
Resistance to leakage and marking (1A AC4.5 class)	mm	≤2.5	≤2.5	≤2.5
Dielectric constant	/	≤5	≤5	≤5
Volume resistivity	Ω·cm	1x10^14	2x10^14	2x10^14

电缆附件硅橡胶

- 特点：绝缘性能好，易加工适合模压或挤出。
- 应用：成型后的产品主要用于冷缩电缆附件、电缆附件(藕合器、电力柜、电缆接头和终端)、中空绝缘套管等。

应用范例

典型的性能数据

性能 / 项目	单位	型号	
		LW-6141L	LW-6140L
邵氏硬度	Shore A	40±3	40±3
外观	/	乳白色	乳白色
可塑度	/	165–205	160–200
密度	g/cm³	1.12±0.03	1.12±0.03
拉伸强度	MPa	≥8.0	≥8.0
伸长率	%	≥700	≥700
定伸永久变形	%	≤7.0	≤7.0
撕裂强度	KN/m	≥25	≥30
线收缩率	%	3.2–3.5	3.2–3.5
介电常数	/	2.5	2.8
体积电阻率	Ω·cm	$\geq 2.0\times10^{16}$	$\geq 2.0\times10^{16}$
击穿电压	KV/mm	22	22

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CABLE ATTACHMENT SILICONE RUBBER

- Features: Good insulation performance, easy to process suitable for molding or extrusion.
- Application: The formed products are mainly used in cold shrinkable cable accessories, cable accessories (coupler, power cabinet, cable joint and terminal), hollow insulation sleeve, etc.

Application

Typical Properties Data

PROPERTY / ITEM	Unit	MODEL NUMBER	
		LW-6141L	LW-6140L
Hardness	Shore A	40±3	40±3
Appearance	/	milky white	milky white
Plasticity	/	165–205	160–200
Density	g/cm³	1.12±0.03	1.12±0.03
Tensile Strength	MPa	≥8.0	≥8.0
Elongation	%	≥700	≥700
Permanent deformation of fixed extension	%	≤7.0	≤7.0
Tear Strength	KN/m	≥25	≥30
Linear Shrinkage	%	3.2–3.5	3.2–3.5
Dielectric constant	/	2.5	2.8
Volume resistivity	Ω·cm	$\geq 2.0\times10^{16}$	$\geq 2.0\times10^{16}$
Breakdown field strength	KV/mm	22	22

电线挤出硅橡胶

- 特点：加工性能好，物理性能优异，各种硬度。可提供60、70、80 ROHs和FDA标准。
- 应用：1.电线 2.电缆

应用范例

典型的性能数据

型号	外观	硬度 (Shore A)	拉伸强度 (Mpa)	伸长率 (%)	撕裂强度 (KN/m)	可塑度	密度 (g/cm³)
LW-7162J	半透明	60(±2)	7	300	15	260~280	1.2
LW-7172J	半透明	60(±2)	7	300	15	260~280	1.2
LW-7173J	半透明	70(±2)	6.5	250	13	310~330	1.22
LW-7175J	半透明	70(±2)	6.5	250	13	310~330	1.22
LW-7185J	半透明	80(±2)	6.5	100	10	330~350	1.23

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WIRE EXTRUDING SILICONE RUBBER

- Product characteristics: Good processing properties, excellent physical properties,Various hardness levels are available: 60, 70, 80 ROHs and FDA compliant.
- Product application: 1. Wires 2. Cable

Application

Typical Properties Data

MODEL NUMBER	Appearance	Hardness (Shore A)	Tensile Strength (Mpa)	Elongation(%)	Tear Strength (KN/m)	Plasticity	Density (g/cm³)
LW-7162J	translucency	60(±2)	7	300	15	260~280	1.2
LW-7172J	translucency	60(±2)	7	300	15	260~280	1.2
LW-7173J	translucency	70(±2)	6.5	250	13	310~330	1.22
LW-7175J	translucency	70(±2)	6.5	250	13	310~330	1.22
LW-7185J	translucency	80(±2)	6.5	100	10	330~350	1.23

管母丙氟硅橡胶

- 特点：绝缘性能好，易加工挤出。
- 应用：成型后的产品主要用于电网输变电、变电所等。

应用范例

典型的性能数据

性能 / 项目	单位	型号		
		LW-371WP	LW-571N	LW-6170JY
邵氏硬度	Shore A	80±3	83±3	75±3
门尼	/	60±5NM	40±5NM	53±5NM
硫化	/	3′00″-4′30″	3′00″-4′30″	2′30″-3′30″
密度	g/cm³	1.2±0.03	1.12±0.03	1.27±0.03
耐热等级	℃	-30℃+90℃	-35℃+105℃	/
老化试验前，185℃*6min*14.5Mpa（平板硫化机）				
拉伸强度	N/mm²	≥9.5	≥10.5	≥10
伸长率	%	230-300	250-300	≥250
老化试验后，135±2℃/168h				
拉伸强度保留率	%	≥80	≥85	80±5
伸长保留率	%	≥80	≥85	80±5
氧指数	/	≥22	≥22	/
体积电阻	Ω．cm	≤100	≤50	$\geq 5.0\times10^{15}$
空气弹性老化试验，135±2℃/40h，0.55Mpa				
拉伸强度保留率	%	≥75	≥80	/
伸长保留率	%	≥75	≥80	/

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TUBE PROPYL FLUORO SILICONE RUBBER

- Features: Good insulation performance, easy to process extrusion.
- Application: The formed products are mainly used in power grid transmission and transformation, substation, etc.

Application

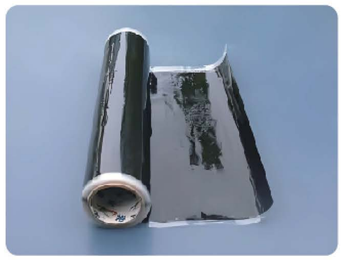
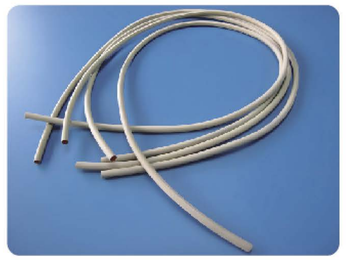
Typical Properties Data

PROPERTY / ITEM	Unit	MODEL NUMBER		
		LW-371WP	LW-571N	LW-6170JY
Hardness	Shore A	80±3	83±3	75±3
ML（1+4）@100℃	/	60±5NM	40±5NM	53±5NM
vulcanize T_{90}(185℃,6min)	/	3′00″-4′30″	3′00″-4′30″	2′30″-3′30″
Density	g/cm³	1.2±0.03	1.12±0.03	1.27±0.03
Thermal rating	℃	-30℃+90℃	-35℃+105℃	/
(before aging test) 185℃*6min*14.5Mpa（Vulcanizing press）				
Tear Strength	N/mm²	≥9.5	≥10.5	≥10
Elongation	%	230-300	250-300	≥250
(after aging test) 135±2℃/168h				
Tensile strength retention rate	%	≥80	≥85	80±5
Linear Shrinkage	%	≥80	≥85	80±5
Oxygen Index	/	≥22	≥22	/
Volume resistivity	Ω．cm	≤100	≤50	$\geq 5.0\times10^{15}$
(air elasticity aging test) 135±2℃/40h，0.55Mpa				
Tensile strength retention rate	%	≥75	≥80	/
Elongation retention rate	%	≥75	≥80	/

电力导电硅橡胶

- 特点：绝缘性能好，易加工挤出。
- 应用：成型后的产品主要用于电网输变电、变电所等。

应用范例

典型的性能数据

性能 / 项目	单位	型号		
		LW-3845D	LW-3350D	LW-3360D
邵氏硬度	Shore A	44±2	50±2	60±2
外观	/	黑色	黑色	黑色
密度	g/cm³	1.12±0.02	1.13±0.02	1.15±0.02
拉伸强度	MPa	≥6.0	≥6.0	≥6.0
伸长率	%	≥450	≥300	≥250
定伸永久变形	%	≤4.5	≤5.5	≤7.5
撕裂强度	KN/m	≥15	≥15	≥12
体积电阻率	Ω・cm	10～100	10～100	10～100

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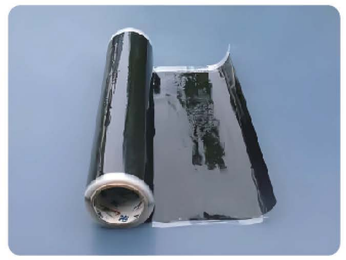
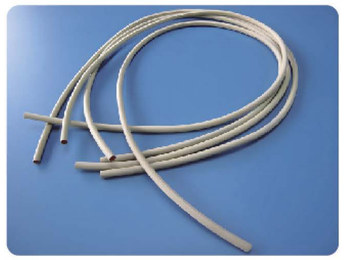
ELECTRIC CONDUCTIVE SILICONE RUBBER

- Features: good electrical conductivity, easy processing, curing speed, resistance stability, long service life, good bonding with the insulation layer, can be molded and injection molding.
- Application: cable connector conductive core, cable accessories stress cone, outer shield coating, etc.

Application

Typical Properties Data

PROPERTY / ITEM	Unit	MODEL NUMBER		
		LW-3845D	LW-3350D	LW-3360D
Hardness	Shore A	44±2	50±2	60±2
Appearance	/	black	black	black
Density	g/cm³	1.12±0.02	1.13±0.02	1.15±0.02
Tensile Strength	MPa	≥6.0	≥6.0	≥6.0
Elongation	%	≥450	≥300	≥250
Permanent deformation of fixed extension	%	≤4.5	≤5.5	≤7.5
Tear Strength	KN/m	≥15	≥15	≥12
Volume resistivity	Ω・cm	10～100	10～100	10～100

阻燃硅橡胶

- 特点：阻燃性能好、易加工，可模压和挤出成型,阻燃等级达到UL94-V0。
- 应用：适用于有严格阻燃要求的电子电气产品，如阻燃垫片、线套和一些特殊场合的电线电缆等。

应用范例

典型的性能数据

性能 / 项目	单位	型号		
		LW-152Z	LW-162Z	LW-172Z
外观	/	乳白色	乳白色	乳白色
可塑度	/	180±20	200±20	220±20
密度	g/cm³	1.44±0.02	1.46±0.02	1.48±0.02
邵氏硬度	Shore A	50±3	60±3	70±3
拉伸强度	MPa	≥4.0	≥4.0	≥4.0
伸长率	%	≥240	≥240	≥240
撕裂强度	KN/m	≥12	≥12	≥12
阻燃等级	Class	2mm94-V0	2mm94-V0	2mm94-V0

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FLAME RETARDANT SILICONE RUBBER

- Features: Good flame retardant performance, easy to process, can be molded and extrusion molding flame retardant grade up to UL94-V0.
- Application: It is suitable for electronic and electrical products with strict flame retardant requirements, such as flame retardant gasket, wire sleeve and some special occasions wire and cable.

Application

Typical Properties Data

PROPERTY / ITEM	Unit	MODEL NUMBER		
		LW-152Z	LW-162Z	LW-172Z
Appearance	/	milky white	milky white	milky white
Plasticity	/	180±20	200±20	220±20
Density	g/cm³	1.44±0.02	1.46±0.02	1.48±0.02
Hardness	Shore A	50±3	60±3	70±3
Tensile Strength	MPa	≥4.0	≥4.0	≥4.0
Elongation	%	≥240	≥240	≥240
Tear Strength	KN/m	≥12	≥12	≥12
Flame retardancy	Class	2mm94-V0	2mm94-V0	2mm94-V0

陶瓷阻燃硅橡胶

- 特点：环保绿色，很高的高拉撕性能，很好的耐油、耐高温、抗腐蚀、耐老化的性能，无毒无味、弹性强。
- 应用：在低、高温环境中的油介质中工作，可冲制油封、垫圈、封条，密封性能好，用于医药、化工及食品行业，及适合于承受压力要求较高的环境，目前通过各项检测大量应用于新能源汽车电池模组的电芯之间的隔热、缓冲垫。

应用范例

典型的性能数据

检测项	单位	测试标准	型号		
			LW-TZ40A	LW-TZ50A	LW-TZ60A
硬度规格	HA	GB/T531.1-2008	40±5	50±5	60±5
试片厚度	mm	547-301厚度规	0.8~5.0	0.8~5.0	0.8~5.0
密　度	g/cm³	通过重量/体积计算	1.28±0.05	1.28±0.05	1.28±0.05
阻燃	/	UL94	UL94V0		
颜色	/	目测	白色		
25C拉伸强度	MPa	GB/T528-2009	μ-3σ≥ 2		
导热系数	W/(m·K)	GB/T10295-2008	μ+3σ≤ 0.4		
压力保持率	%	GB/T1685-2008	≥40		
压缩尺寸变化	%	2MPa压力下尺寸(长宽)变化	≤5%		
禁用物	/	RoHS	RoHS&REACH&ELV	RoHS&REACH&ELV	RoHS&REACH&ELV
绝缘阻抗	MΩ	1000VDC60s	μ-3σ≥500		
	mA	2700V/60s	μ+3σ≤ 1		
摩擦系数	/	GB/T10006	μs:≥0.2		
比热容	J/(g · K)	ASTME1269-2011	μ-3σ≥0.91		

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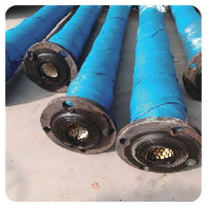
CERAMIC FLAME RETARDANT SILICONE RUBBER

- Features: Environmental protection and green, high high tearing performance, good oil resistance, high temperature resistance, corrosion resistance, aging resistance, non-toxic and tasteless, strong elasticity.
- Application: Working in the oil medium in low and high temperature environment, can punch oil seals, gaskets, seals, good sealing performance, used in medicine, chemical and food industries, and suitable for withstand high pressure environment, at present through various tests used in a large number of new energy vehicle battery modules between the cell insulation, buffer cushion.

Application



Typical Properties Data

Testing items	unit	Testing standards	MODEL NUMBER		
			LW-TZ40A	LW-TZ50A	LW-TZ60A
Hardness specifications	HA	GB/T531.1-2008	40±5	50±5	60±5
Test piece thickness	mm	547-301 Thickness gauge	0.8~5.0	0.8~5.0	0.8~5.0
Density	g/cm³	count via weight/volume	1.28±0.05	1.28±0.05	1.28±0.05
Flame retardancy	/	UL94	UL94V0		
Color	/	eye-measurement	white		
Tensile strength	MPa	GB/T528-2009	μ-3σ≥ 2		
Thermal conductivity	W/(m·K)	GB/T10295-2008	μ+3σ≤ 0.4		
Pressure retention rate	%	GB/T1685-2008	≥40		
Compression size change	%	Changes in size (length and width) under 2MPa pressure	≤5%		
Prohibited items	/	RoHS	RoHS&REACH&ELV	RoHS&REACH&ELV	RoHS&REACH&ELV
Insulation impedance	MΩ	1000VDC60s	μ-3σ≥500		
	mA	2700V/60s	μ+3σ≤ 1		
Friction coefficient	/	GB/T10006	μs:≥0.2		
Specific heat capacity	J/(g · K)	ASTME1269-2011	μ-3σ≥0.91		

发泡硅胶

- 特点：本发泡硅胶是一种有机硅材料物理发泡而成，发泡后其孔径小且细腻均匀，是一种环保无味的FDA食品级硅胶泡棉，属于双组分加成型硅橡胶。其硫化前分为A、B两组分，可室温固化也可加热固化。硫化后成为柔软的弹性体，质轻、耐高低温、隔热、抗震、缓冲、隔音等作用。
- 应用：1、密封圈、密封垫、密封条、发泡板材、硅胶发泡管等。
  2、电子元件、电子设备、配件、模组模块、电池、雷达传感器进行密封。
  3、适用于硅胶胸贴胸垫、肩垫、鞋垫、沙发垫、床垫等柔性硅橡胶制品。
  4、填充硅胶机器人、硅胶娃娃等硅胶产品。
  5、新能源汽车、航天、军工、通讯、高铁、消防等。

应用范例

典型的性能数据

型号	比例	颜色	粘度	操作时间(分钟)	固化时间（小时）	硬度（邵氏C）	发泡倍数(times)
LW-6002	1:1	白色	20000	10–15	1h	15±3	2.0±0.5
LW-6003	1:1	白色	15000	5–10	1h	10±3	3.0±0.5
LW-6004	1:1	白色	11200	5–10	1h	8±3	4.0±0.5
LW-6005	1:1	白色	12800	5–10	1h	6±3	5.0±0.5
LW-6006	1:1	白色	8800	5–10	1h	3±3	6.0±0.5

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FOAMED SILICONE

- Features: The foamed silicone is a kind of organic silicon material physical foam, foam after its aperture is small and delicate and uniform, is a kind of environmental protection and tasteless FDA food grade silicone foam, belongs to the two-component plus molding silicone rubber. Before curing, it is divided into A and B components, which can be cured at room temperature or by heating. Vulcanized into a soft elastomer, light weight, high and low temperature resistance, heat insulation, seismic, buffer, sound insulation and other functions.
- Application: 1. Sealing ring, gasket, sealing strip, foam sheet, silicone foam tube, etc.
  2. Seal electronic components, electronic equipment, accessories, module modules, batteries and radar sensors.
  3. Suitable for silicone chest pad chest pad, shoulder pad, insole, sofa cushion, mattress and other flexible silicone rubber products.
  4. Fill silicone robot, silicone doll and other silicone products.
  5. New energy vehicles, aerospace, military, communications, high-speed rail, fire, etc.

Application

Typical Properties Data

MODEL NUMBER	Proportion	Color	Cps	Operation time (minute)	Curing time (Hour)	Hardness (shore C)	Foaming ratio (times)
LW-6002	1:1	white	20000	10–15	1h	15±3	2.0±0.5
LW-6003	1:1	white	15000	5–10	1h	10±3	3.0±0.5
LW-6004	1:1	white	11200	5–10	1h	8±3	4.0±0.5
LW-6005	1:1	white	12800	5–10	1h	6±3	5.0±0.5
LW-6006	1:1	white	8800	5–10	1h	3±3	6.0±0.5