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橡 塑 制 品 有 限 公 司

HANGZHOU LINGO RUBBER & PLASTIC PRODUCT CO., LTD

- FROM DESIGN TO DELIVERY FOR ALL INDUSTRIES



PPAP
Production Part Approval Process

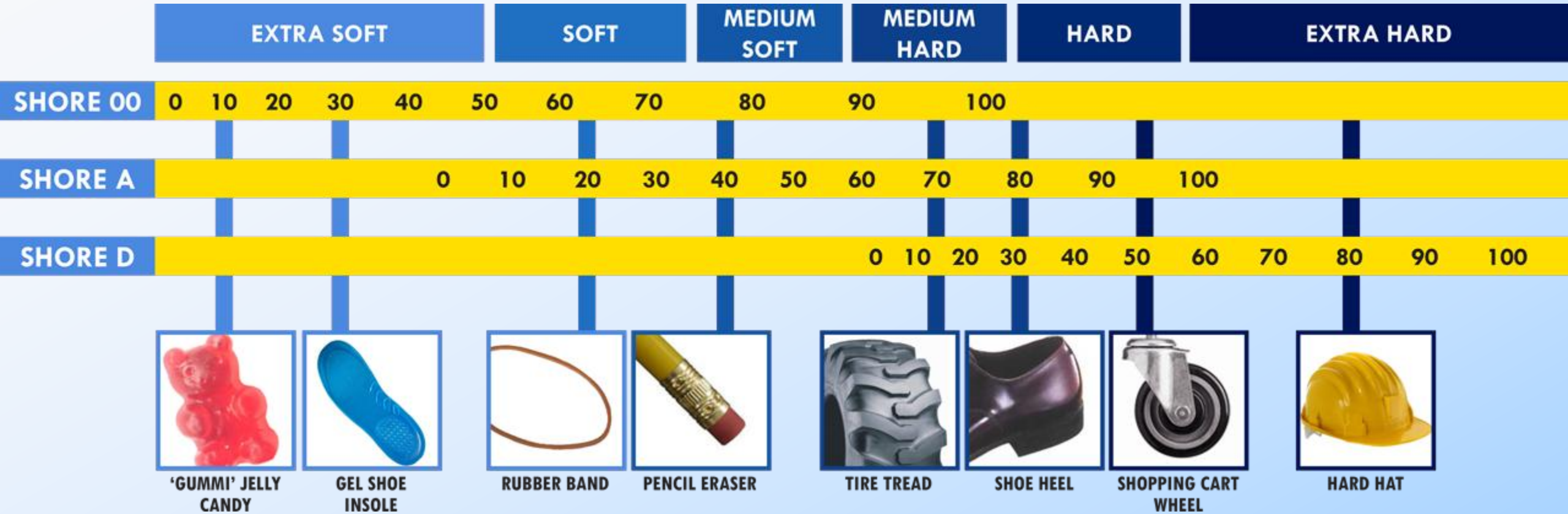


◀ MANUFACTURING CAPABILITIES ▶

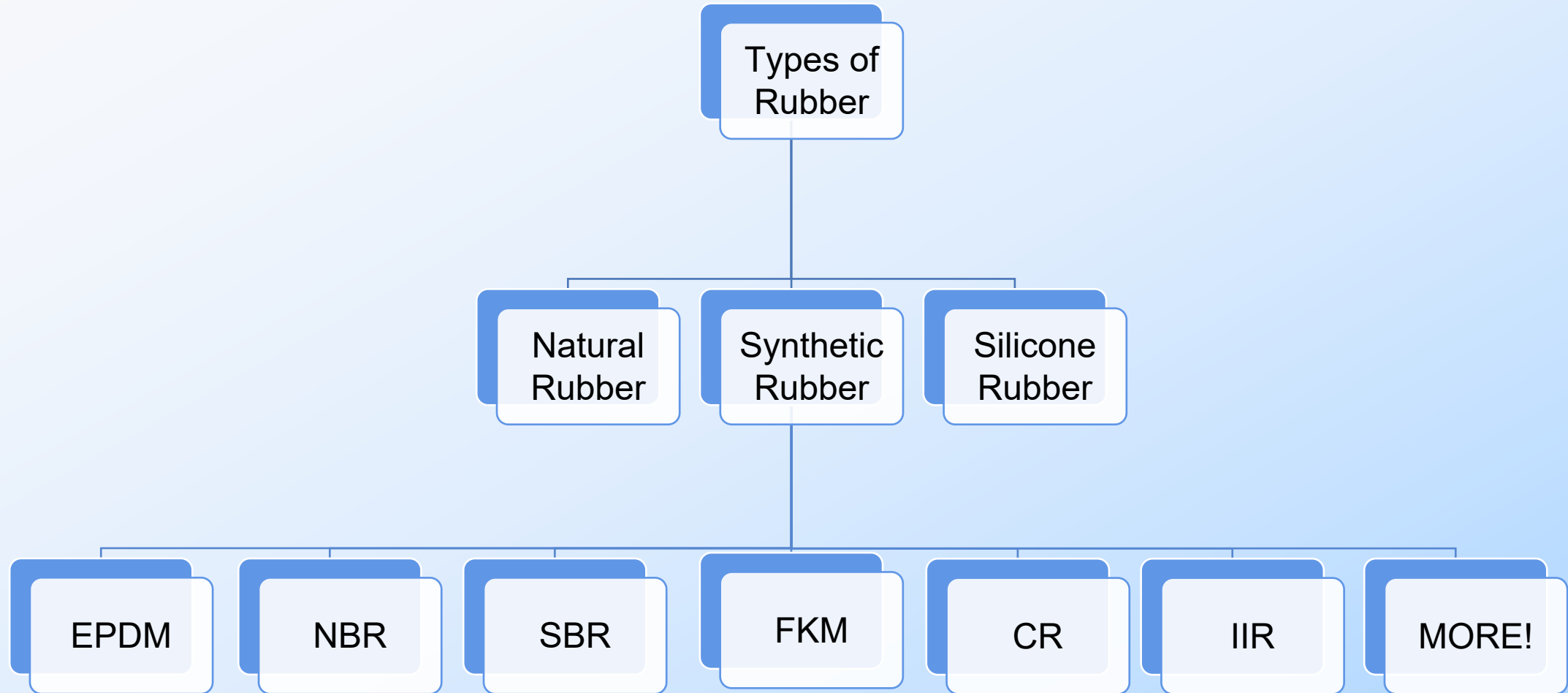
LINGO Rubber Plastic manufactures rubber parts and plastic parts from an extensive range of material specifications, compounds, grades and hardness. We assist in design and development of prototype parts or produce high-volume OE production quantities to meet your particular size, shape and material specifications. This profile is aimed to give you an overview of the rubber and plastic parts LINGO offer.

- Rubber compression molding parts, Rubber injection molding parts, Rubber transfer molding parts
- Rubber extrusion strips: solid extrusion, sponge extrusion, silicone extrusion
- Plastic injection molding parts, Plastic second injection parts
- Plastic Extrusion: PA6/PA66 with/without GF, PE/HDPE/UHMWPE extrusion, ABS, PC, PVC, PP, etc
- Others: Machining, PVC dipping, Assembly, etc

HOW TO CHOOSE MATERIAL



DIFFERENT TYPES OF RUBBER MATERIAL



RUBBER MATERIAL PROPERTIES GUIDE

Rubber is a unique material known for its elasticity, thermal contraction, durability and, as such, it remains one of the most popular materials for many sectors to this day.

This chart gives you an idea of how to choose the right rubber material.

	IR	NR	SBR	EPDM	IIR	NBR	CR	CSM	PU	ECO	FKM	SI	ACM	BR
Elongation	★	★	●	●	●	●	●	●	★	■	■	★	■	△
Tension strength	●	★	●	△	△	●	●	●	★	△	●	■	■	△
Abrasion Resistance	★	★	★	●	★	★	●	●	★	△	△	●	△	★
Tear Resistance	●	★	△	△	△	●	●	△	★	△	△	■	■	△
Rebound Resistance	★	★	△	●	■	●	★	△	★	△	△	△	△	★
Gas Impermeability Resistance	△	△	△	△	★	●	★	●	●	★	●	■	△	△
Ozone Resistance	■	■	■	●	●	■	●	★	●	★	★	★	●	■
Impact Strength Resistance	★	★	★	●	●	●	●	●	★	●	△	■	■	●
Oxygen Resistance	△	△	△	●	★	△	●	★	●	●	★	★	●	△
Flame Resistance	■	■	△	★	★	■	●	★	●	●	★	★	●	△
Weathering Resistance	△	△	△	★	★	△	●	●	●	●	★	★	●	△
Heat Resistance	■	■	△	●	●	△	●	●	△	●	★	★	●	△
Low Temperature Resistance	●	●	△	●	△	△	△	△	●	●	●	★	■	●
Oil And Fuel Resistance	■	■	■	■	■	●	◇	◇	●	●	★	△	●	■
Animal & Vegetable Oil Resistance	△	△	△	●	●	●	●	●	●	★	★	◇	★	△
Alcohol Resistance	●	●	●	◇	●	●	★	★	◇	●	●	●	●	●
Alkaline Resistance	△	△	△	●	★	●	★	★	■	◇	◇	■	■	△
Acid Resistance	◇	◇	◇	●	●	●	●	●	■	△	●	△	△	◇
Oxygenated-Solvent Resistance	●	●	●	★	★	■	■	△	■	■	■	△	■	●
Water Resistance	★	★	●	★	★	●	●	●	△	●	●	●	■	★
Aliphatic-Solvent Resistance														
- Aliphatic	■	■	■	■	■	●	●	●	●	●	★	■	★	■
-Aromatic	■	■	■	■	■	◇	△	△	■	●	★	■	△	■

★ Excellent ● Good ◇ Suitable △ Limited ■ Poor

◀ RUBBER PRODUCTS ▶



Masking Solution

- Withstands Heat Up To 600°F/315°C
- Various Colors Available
- Made from Silicone Rubber
- Use For Powder Coating, Painting, Plating, etc



Rubber Extrusion

- Highly Durable and High Endurance
- Custom or Standard Available
- Cost-Efficient Production
- Low Building Cost



Rubber Steel Bond

- Good for anti-vibration solutions and sealing solution
- Stable quality and extra-long lifetime
- Strong adhesive between rubber and steel



Rubber Sealing

- Standard and customized O-Ring
- Other seals, gaskets and washers
- Various material available for different purpose



Auto Rubber Part

- Customized available
- Precise dimension control
- PPAP and IMDS available
- Strick quality control



Transluent Silicone

- Made from dense silicone rubber and liquid silicone rubber
- Clear color, no pollution
- Chemically iner and odorless, , can be used in a variety of applications

PLASTIC MATERIAL PROPERTIES GUIDE

Plastic materials are widely used in various car components due to very high specific strength, comparable thermal stability with excellent chemical resistance, low cost, and extremely light-weight compared to any metal components. This chart gives you an idea how to choose the right plastic material.

Materials	Specific Gravity	Tensile Strength	Tensile Elongation	Compression Strength	Tensile Modulus of Elasticity	Flexural Strength	Flexural Modulus of Elasticity	Izod Impact
ASTM TEST	D792 73°F	psi D638, 73°F	% D638, 73°F	psi D695, 73°F	psi D638, 73°F	psi D790, 73°F	psi D790, 73°F	ft-lbs/in D256, 73°F
ABS	1.04	4100	32	–	294,000	9100	304,000	7.7
Acetal	1.42	10000	75	–	450,000	14300	420,000	1.5
Acrylic	1.19	10000	4.5	17,000	400,000	17,000	480,000	0
Cellulose Acetate Butyrate(CAB)	1	5,221	33.9	–	400,000	–	230,000	4.4
CE – Canvas Phenolic	1	9,000	–	34,000	–	15,000	1,500,000	2
Polyamide	1	12,400	90	–	470,000	17,000	450,000	1
Ethylene Chlorotrifluoroethylene(ECTFE)	2	8,000	300	–	250,000	–	145,000	No breaking
HDPE	1	4,000	600	-	–	–	200,000	–
LDPE	1	1,400	500				30,000	No breaking
NYLON(PA)	1	12,400	90		470000		410,000	1.2
PBT	1	8,690	300	–	416,000	12,000	330,000	2
PEEK	1	14,000	60	–	400,000	24,600	590,000	2
PET	1	11,500	70	–	400,000	15,000		1
PETG	1	7,700	210	–	320,000	11,200	310,000	2
Polycarbonate(PC)	1	9,500	135	12,500	345,000	135,000	345,000	12.0 – 16.0
Polypropylene	1	5,400	–	–	–	–	225,000	1.2
PTFE	2	2,500	150	–	–	–	72,000	3.5
PVC	1	7,500	–	–	411,000	12,800	481,000	1
PVDF	2	7,800	35	–	350,000	10,750	310,000	3
Thermoplastic(TPR,TPV,TPO,TPE)	1	1,740	31	–	–	–	–	–
UHMW-PE	1	3,100	350	–	–	–	110,000	*

◀ PLASTIC PRODUCTS ▶



Plastic Injection

- Various material and colors available
- Cold Runner/ Hot Runner
- Highly Durable and High Endurance
- Auto use



Plastic Extrusion

- Tubes, cords and special profiles
- Minimal waste production
- Continuous operation capabilities, high runout
- Complex shapes can be produced



PVC Dipping

- Durability, Insulation, Cost-Effective, Chemical & Corrosion Resistance, etc
- For HVAC Components, Tool Handles, Metal Warehousing Racks, etc
- Highly efficient, minimal waste systems



CNC Machining

- Rigid plastic material
- Precise dimension and quality control
- Better for small orders
- For parts not able to be molded



Plastic Bondings

- Plastic bond to rubber
- Plastic bond to steel
- Strong adhesive between materials
- Food FDA grade available

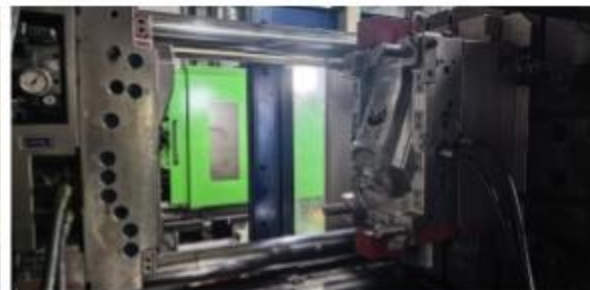


PTFE Machining

- Precise dimension and quality control
- Clear color, no pollution
- Chemically iner and odorless, , can be used in a variety of applications



FACILITIES



◀ TESTING EQUIPMENT ▶



TENSILE MACHINE

GRAVITY BALANCE



DUROMETER

DIGITAL CALIPER

PANTONE



CERTIFICATIONS



Test Report
HANGZHOU LINGO RUBBER & PLASTIC
 RM 1303, MEIYA

THE TEST REPORT
 AUG.21, 2018.
 The following sample
Sample Description
Color: BLACK
Style/Item No.: /
Density: 1.35g/cm³
Thickness: 3mm
Manufacturer:

2. - HAZARDS IDENTIFICATION

LABEL ELEMENTS	
Product identification and supplier emergency telephone number.	
Route of entry	
Healthy hazards	
Environment hazards	
Explosive hazard:	

Test Requested:
 To determine the per
 94-2017, Tests for
 Burning Test for Cla

Test Results: -- Se
Conclusion: Accor
 at a nc

Test Period:
 Sample Receiving I
 Test Performing Da

Signed for and on b
 SGS-CSTC Co., Ltd

Allen Zou
 Technical Manager

4. - FIRST AID MEASURE

First aid measures:
Inhalation: Remove casualty
 resuscitation maneuvers in ca
Skin contact: Remove clothi
 irritation persists, seek medic
Eye contact: Immediately wi
 product. seek medical attentio
Ingestion: Never give anythi
 refer immediately to a doctor
What actions must be avoid
 their side to prevent pulmon
Brief description of the main

MATERIAL SAFETY DATA SHEET - MSDS
FLUORORUBBER
 REVISION: DEC. 12. 2025



Test Report No.:
 Client Name: HANGZHOU L
 Client Address: 3-B743, NO. 1

Sample Name: F No.: SH160600331C01C
 Model No.: >
 Client Ref. Information: \$
 The above sample(s) and info
 Following sample is provided and confirm:
 SGS Job No.: \$
 Sample Receiving Date: /
 Testing Period: /
 Test Requested: \$
 Test Method(s): F
 Test Result(s): F

Test Requirement	
1 US FDA 21 CFR 177.21	

Testing period : 2016/06/27-2016/0
 Testing requirement: See next page
 Testing method Per FDA 21 CFR 1
 Testing result See next page
 Conclusion Sample passes FC

Signed for and on behalf of
 SGS-CSTC Standards Techni

Jenny Lan
 Approved Signatory



TES

LINGO RUBBER & PLASTIC
 From Design to Delivery for Industries

Production Part Approval Process Forms

Part Name
 Part Number
 Revision
 Revision Date

Organization Name Hangzhou Lingo Rubber and Plastic Product Co. Ltd.
 Organization Code /
 Street Address Rm1303 Meiya Plaza, LP
 City Hangzhou
 Province Zhejiang
 Country China
 Zip 311100
 Phone Number
 Fax Number
 Customer Name

THE FOLLOWING SUBMISSION ELEMENTS WERE USED TO PREPARE THIS WORKBOOK

SUBMISSION ELEMENTS
Part Submission Warrant
Dimensional Results
Material Test Results
Drawing
Tooling
Capability Study
GR&R
Control Plan
Process Flow Diagram



批准 胡汉青 审核



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 或全部複製。
 地址：上海外灘商務印書館 郵政編碼：200013
 電話：+86(21)68892717



EPORT

p-2022 Page 1 of 4

Date: 03 Mar 2020 Page 1 of 10 Product Co., Ltd

C PRODUCT CO., LTD
 1100
 Hangzhou, China 311103
 Submitted and identified by client as:

1022
 behalf of the clients as : GA-1053

-3 series/ GA-5 series/ GA-6 series/
 20 series/ GA21 series/ GA22 series/
 425 series/ GA26 series/ GA27 series/

Reference Standard/Method	Result(s)
US FDA 21 CFR177.2600	PASS

by client.

Conclusion
PASS

in accordance with the requirement stated in Food and D

u Branch



Signed for and on behalf of ST
 Tim Qi
 (Technical Director)



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City, Guangdong Province

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◀ SUPPLYING INDUSTRIES ▶

AUTOMOTIVE INDUSTRY



CONSTRUCTION



OIL & GAS INDUSTRY



PHARMACEUTICAL & MEDICAL INDUSTRY



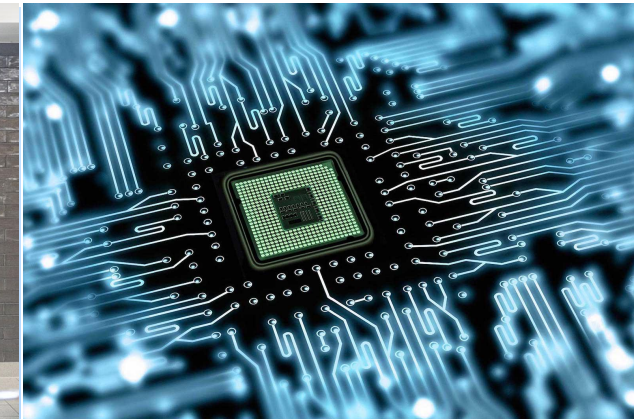
BEVERAGE & FOOD



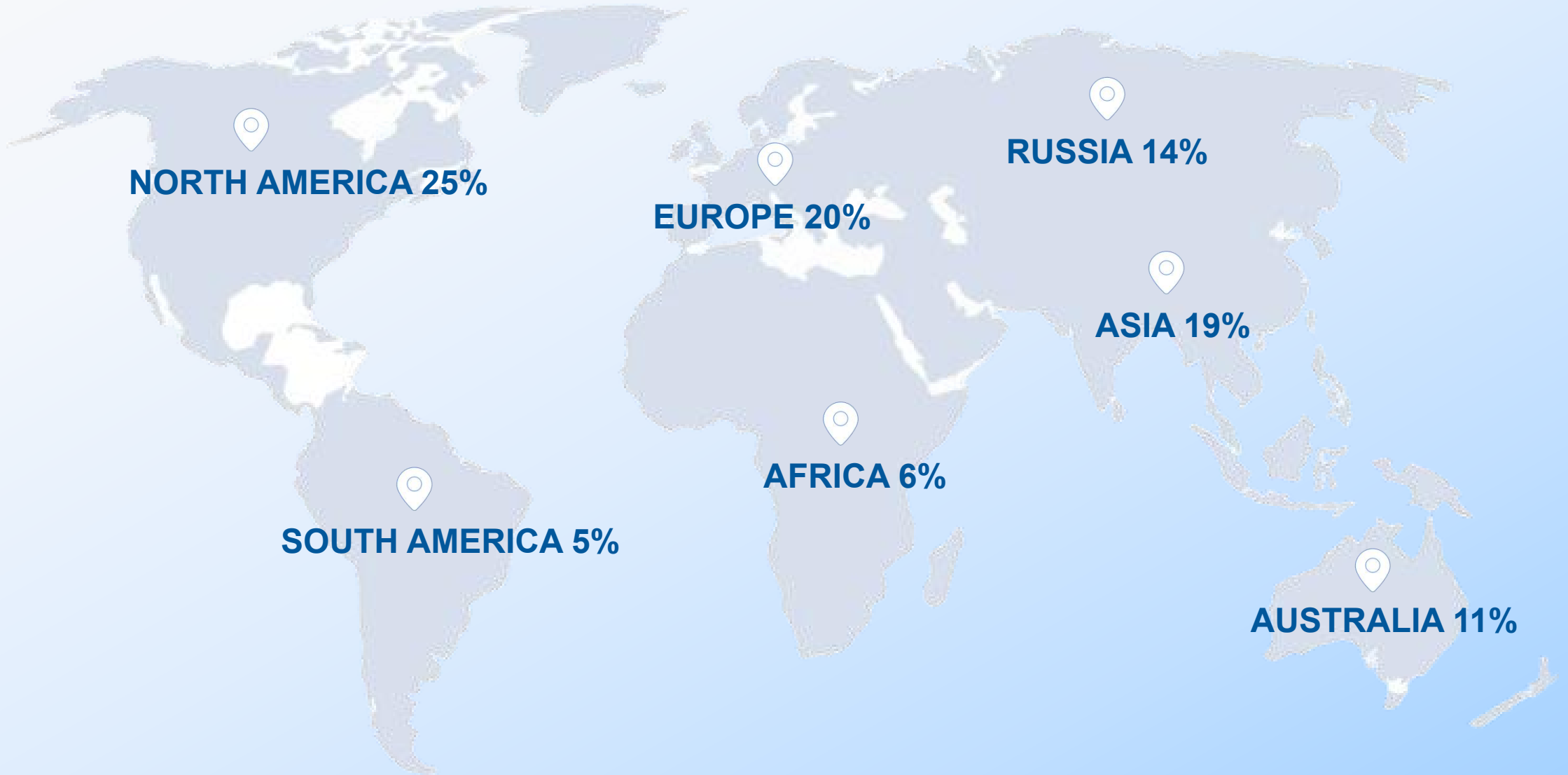
DAILY LIFE



ELECTRONIC INDUSTRY



◀ WHERE OUR CUSTOMERS LOCATE ▶



THANK YOU FOR YOUR TIME!

感谢您的观看!

HANGZHOU LINGO RUBBER AND PLASTIC PRODUCT CO., LTD

Address: Rm1303 Meiya Plaza, LP, HZ, China 311100

Phone: +86-18358136245

Email: sales@lingorp.com

Website: www.lingorp.com

