



凌 欧
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

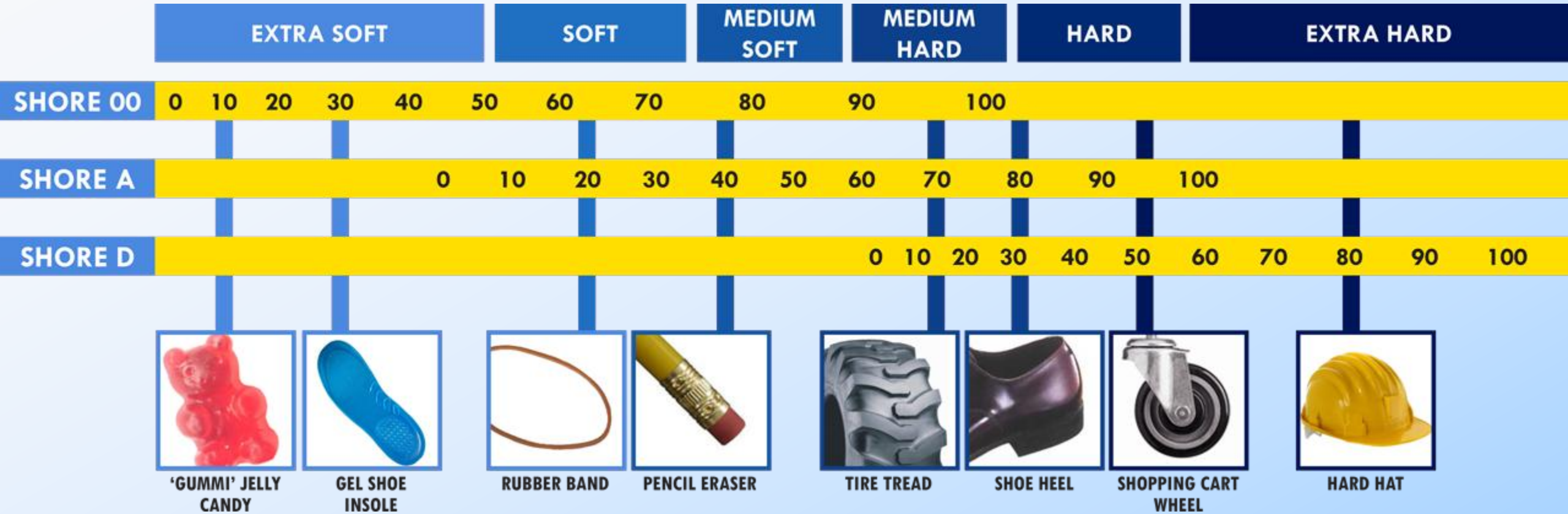


◀ MANUFACTURING CAPABILITIES ▶

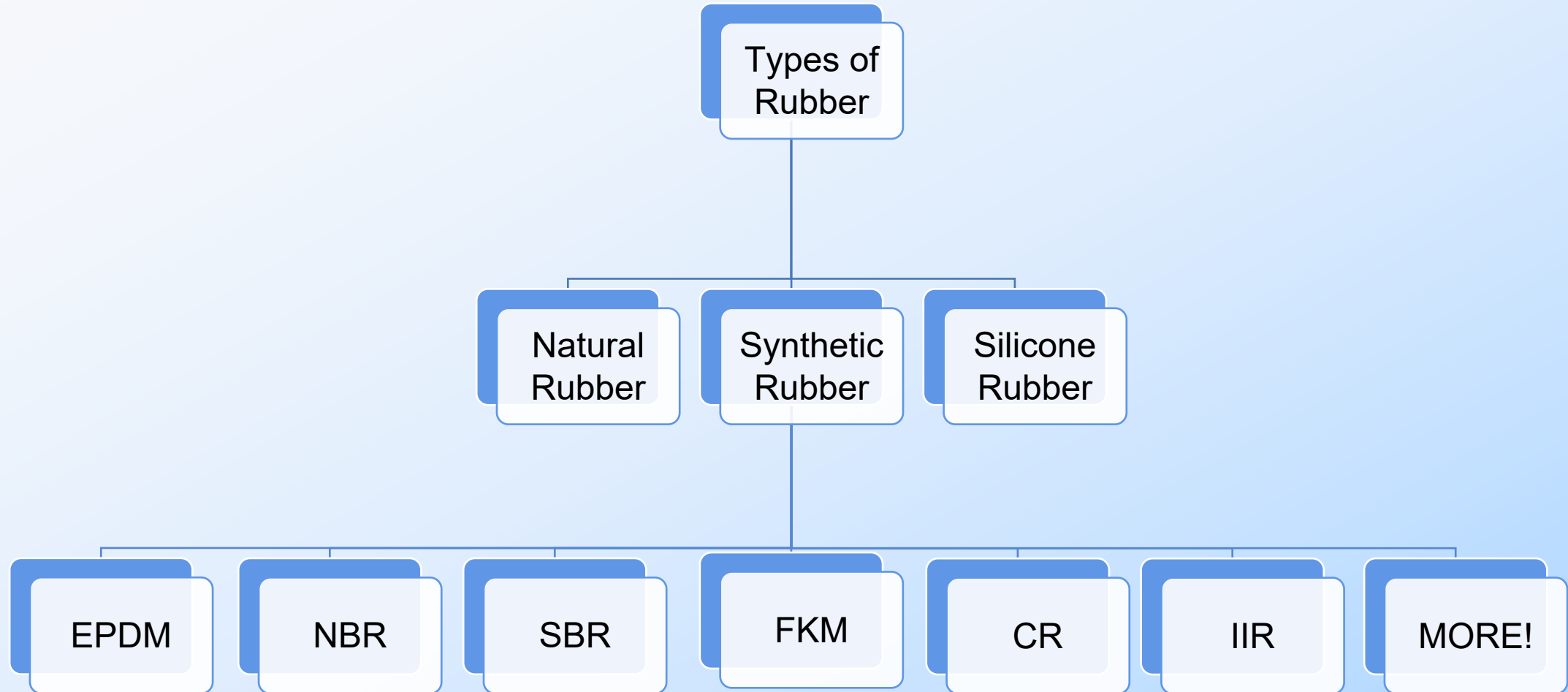
LINGO Rubber Plastic manufactures rubber parts and plastic parts from an extensive range of material specifications, compounds, grades and hardness. We assist in design and development of prototype parts or produce high-volume OE production quantities to meet your particular size, shape and material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

- Rubber Molding: Auto parts, Sealing solutions, Anti-vibration solutions, etc.
- Rubber Extrusion: Sealing profile/tube, trim seal, multi material extrusion
- Plastic Injection/Extrusion: Thermoplastic Elastomer, UHMWPE, PTFE products
- Silicone Products: Colored products, Translucent products, masking solution, tubes, cord & strips

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



◀ SUPPLYING INDUSTRIES ▶

AUTOMOTIVE INDUSTRY



CONSTRUCTION



OIL & GAS INDUSTRY



PHARMACEUTICAL & MEDICAL INDUSTRY



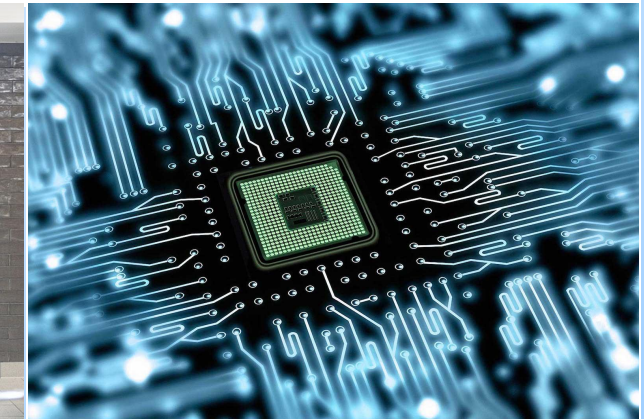
BEVERAGE & FOOD



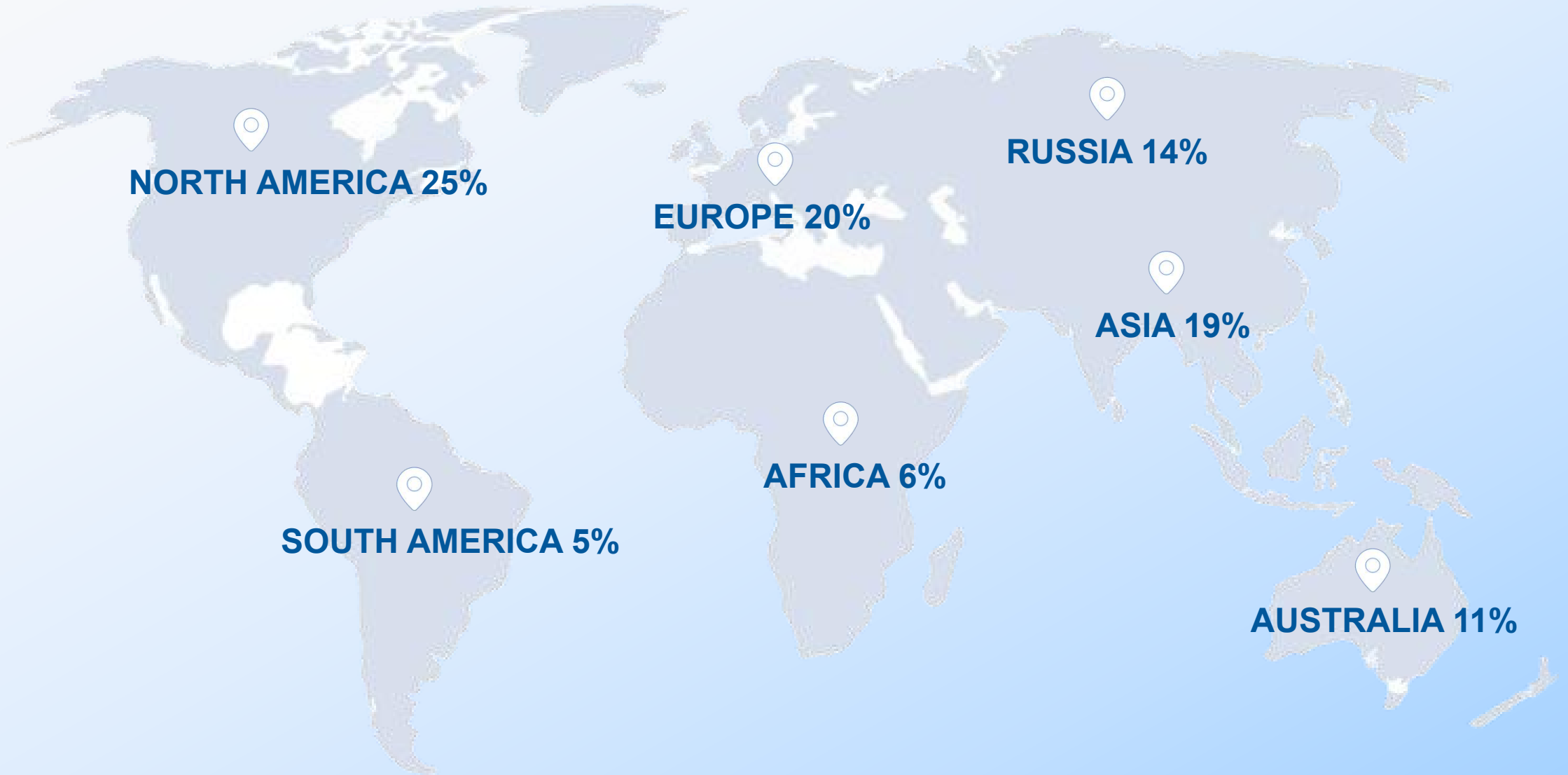
DAILY LIFE



ELECTRONIC INDUSTRY



◀ WHERE OUR CUSTOMERS LOCATE ▶



THANK YOU FOR YOUR TIME!

感谢您的观看!

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