

Realize wants of "Change"

For nearly 90 years since our founding, we have continued to supply products using chemical materials, mainly rubber parts.

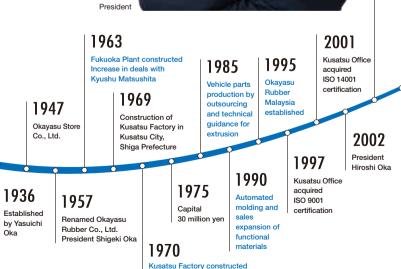
The rubber component supplier that we belonged to at that time was too small to meet the demand.

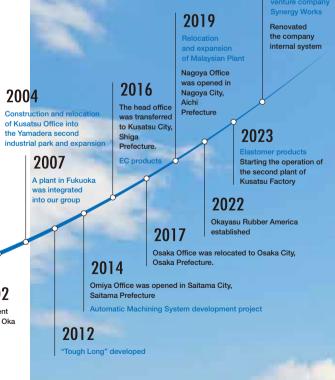
Our company was founded as a trading company but changed to a manufacturer and then has continued making efforts to introduce new technologies including those from other industries, leading to the current reputation as a reliable, distinctive manufacturer.

We have been changing while keeping the venture spirit and prompt actions in mind, which has led to successful overseas expansions in Malaysia and the United States, and business diversification into other types of products in addition to rubber.

Our company's present reputation is attributable to our everlasting







2025

Vision

Company associates, business partners and all other members of society

achieve three types of happiness

Bond

Connection with important people and society

Speed and

efficiency are our

essential properties

Questions and

awareness are our

forte



Pride

Rewarding challenges and self-realization

Emotion Moving experience

Value Breakthrough for Monozukuri/Making

Mission - Mission-

Realize wants of "Change"

Culture -Culture-

 Support and reward all people who are willing to face challenges regardless of their age, gender or personal history

2. Pursue highest speed and efficiency to shape as many ideas as possible

3. Value connections with people and society, and respect people who care about others

Improvement and challenging spirit are indispensable for our success

Delights shown by the post-processes are our pride

requests to make breakthroughs.

Breakthrough Point

Developing our own automatic adhesive machine for mass production of endless products

Case. 1 Blower motor seal

< Application > Water packing piece for automobile air conditioners

"Customer need/problems"

- Some customers complained that flat rubber packing piece made by punching was too hard to protect water from leaking.
- We need large lots of sponge rubber endless products.



- CUSTOMER ACTION -

1 Requirement

Okayasu Rubber had been supplying EPDM sponge as a sealant and wanted to adopt the same sealant even after the end user's specifications were changed. Quality requirements included those for peeling strength, sealing performance and heat resistance. A mass production system that is large enough to meet the year-by-year increasing demand should be established as soon as possible,

3 Evaluation using samples

Water leakage occurred where the adhesive was forced out and hardened. Evaluation result: No Good The hardened adhesive caused a gap to be produced in the packing mating part, leading to water leakage.

- OKAYASU ACTION -

2 Developing an adhesive

Instantaneous curing of adhesive was required for mass production. There was a problem that EPDM material itself was generally difficult to adhere. First, a conventional instant adhesive being used for EPDM materials was submitted and studied.

4 Developing an adhesive

Cooperating with adhesive manufacturers, we developed a special adhesive. Post-curing hardness of adhesive was reduced: and adhesive holding time was reviewed. Peeling strength test, water leakage test and aging test were carried out by our company. Submitted samples.

Feedback

5 Evaluation using samples

Testing samples showed a satisfactory result.

8 Start of mass

production Process and quality check (process capability): start of

mass production with an initial

annual production of 1.500

6 Production process review <Manual adhesion using a jig>



Minimize the step made between adhered sections.

and press adhesive process - Daily production of 150 work

All operations of clamping both ends of each piece of sponge rubber, applying adhesive and operating the lever clamp are completely manual.

Forming the principle of the adhesive process



Extrusion and integrated 100 pieces: 1 bundle

While producing a cord of sponge

sections. Make a bundle of 100 pieces.

rubber by extrusion, it is cut into



Improving production efficiency and quality



7 Start of mass production

Developing a semiautomatic system using <Turntable-Employed Semiautomatic Adhesive Machine>

While producing a cord of sponge rubber by extrusion, it is cut into sections. Make a bundle of 100 pieces.



Extrusion and integrated 100 pieces: 1 bundle

Sponge rubber is set in the jig, and the holding tool is operated by a foot pedal. Start gluing by pressing the start button. Estimate the process capability that affects the peeling strength.

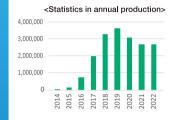


Turntable-employed

- CUSTOMER ACTION -

9 Production statistics

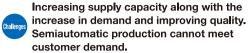
Increasing mass production



Production/ year	Total production (length in m)
1,500	740
132,639	65,660
710,891	351,890
2,004,962	992,460
3,299,032	1,633,020
3,652,868	1,808,170
3,080,448	1,524,820
2,697,115	1,335,070
2,696,909	1,334,970
	year 1,500 132,639 710,891 2,004,962 3,299,032 3,652,868 3,080,448 2,697,115

- OKAYASU ACTION —

10 Increasing production Challenge



Production efficiency

Development of<Automatic adhesive machine>

Sponge rubber is automatically wound on a drum.



Itomatic adhesive process - automatic operation Daily production of 1,800 work pieces per machine per 22 hours/day operation

Set the material roll drum in the automatic machine. Cut the roll, apply adhesive, and adhere sections



Measure and cut the rolled

Place the work piece that

adhered by the machine

Transfer the finished

oduct to the box>

material by the automatic machine.





tomatic adhesive process - automatically adhered work pieces

Quality control (Final inspection)

Visually inspect the upper and lower limits of the adhesive inner diameter using a jig. Using a jig, check that the number of work pieces per bundle is 25. Pack 100 work pieces in a bag.





Count the number of work

The inner diameter of the adhered section and the number of work pieces processed

automatically with a camera. Speed up



- A piece of solid flat packing was
- \Rightarrow Water leakage
- Producing the endless product uses manual adhesion to connect sections, with no mass production being available.



Conventional flat packing (Conceptual image)

Multiple

Production capacity

Manual adhesive operation: 150 work pieces/o 8 hours operation

8 hours operation







Realize wants of "Change"

Automatic adhesion between sections of an endless part Successful Mass Production!

requests to make breakthroughs.

Breakthrough Point

Proposal for switching from [Mold-employed forming] to [Continuous extrusion forming]

Case. 2 Protective bushing

< Application > Reduce vibration of the outdoor unit of an air conditioner

"Customer need/problems"

- They desire to rationalize the components of the outdoor unit of their production lines for cost reduction and process improvement.
- They want us to propose improvement plans, since they don't know how to do it.



Part made with a mold

Part made by extrusion

- CUSTOMER ACTION -

1 Requirement

The customer desired to rationalize the components of the outdoor unit of the production lines though they didn't know what could be improved. The customer asked Okayasu, a component supplier, to visit the production lines and advise modification proposals.

OKAYASU ACTION

2 Internal review

We visited the customer's production lines of the outdoor unit, We decided to propose a modification of the pipe securing protective bushings (the part is used in large quantities so a great improvement can be expected).

An alternative geometry, that can be obtained by using an extrusion process, is available as far as the part can meet the requirement that it shall protect the object (copper pipes) from vibration. If this is the case, the present mold-employed forming method can be replaced with an extrusion process.

Extrusion can give the work piece a uniform cross-section. Unlike extrusion processes, the process of forming a material with a mold can produce a complex form such as those with horizontal grooves on the surface.

→ Ribbed geometries were studied. → Part drawings were prepared internally.

(2) Copper pipe corrosion

Since the part is used for fastening copper pipes, it must not corrode copper pipes. Unlike the forming method with a mold, the extrusion process cannot be associated with peroxide crosslinking, so that low-sulfur materials have to be used.

→ Modified compounds were studied internally.

*Peroxide crosslinking: a sulfur-free crosslinking method. Crosslinking using sulfur may give rise to

*Vulcanization is a process of crosslinking a rubber by using sulfur.

3 Discussion

Discussions for modification of part geometries and use of low-sulfur material.



5 Material sample evaluation

Low-sulfur material does not affect the copper pipe.

4 Material sample

A low-sulfur material sample was prepared and submitted.

6 Trial production

Trial production could be carried out at low cost.

*Example) Forming with a mold: manufacture of mold + trial production = From 1 million yen Extrusion: manufacture of nozzle + trial production = Around 0.12 million ven

7 Discussion

The prototype was checked. Changing the production method to extrusion leads to a recess-less geometry of the part unlike that obtained by the previous production method, so that the part (band) may come off the piping.

8 Internal review

As a result of repeated in-house studies, the band was modified to a ribbed structure so that it can be kept secured to the piping. Proposal drawings were created and submitted.

- CUSTOMER ACTION -

OKAYASU ACTION

O Discussion

It was decided to perform trial production again but with some design modifications that will need to be proposed by us and accepted by the customer prior to the trial production. However, since this part's vibration-damping performance depends on its weight, its manufacturing accuracy shall be controlled by weight, not by geometry.

11 Initial trial production and evaluation

The band came off the test assembly in the drop test. → Request for modification of the ribs' geometry. The part was too light to perform well as a vibration damper.

B Second trial production and evaluation

The part was not affected by the corrosion of the copper pipe on which the part was fitted; and the part did not come off in the drop test. The part's weight is OK in terms of vibration-damping performance.

(2) Drop test result: good (3) Weight: good

10 Trial production

Due to the large discharge amount of material from the nozzle, the work piece was burred. The nozzle was modified so that the discharge pressure could be reduced.

12 Trial production

The part's form was modified so that it could have a larger number of ribs. The thickness of the part was increased by 2 mm to increase its weight.

14 Mass production

Since this part's vibration-damping performance depends on its weight, weight-based manufacturing tolerance control should be applied in place of dimension-based control.

<Advantage> Annual production of 360,000 pieces

	•		•
Production system Item	Forming with a mold	Extrusion	Effect
Production capacity	2,000 work pieces/day	30,000 work pieces/day	Significantly raised
Finishing cost	2 yen	0 yen	Reduced
Lead time	30 days	14 days	Shortened
Total cost (%)	100%	84%	Reduced



part made by extrusion is installed on the copper tubes.

Previous production

Forming with a mold requires a larger initial investment for manufacturing a mold ⇒ Higher cost Longer time needed for manufacturing a mold ⇒ Longer lead time Deburring operation ⇒ Longer lead time and additional processing cost













Extruder's nozzle is cheaper than the mold ⇒ lower cost

Time needed for manufacturing an extruder's nozzle is shorter than that for manufacturing a mold ⇒ Shorter lead time











l) Changing to ribbed molding makes it possible to switch from mold-employed forming to extrusion, Have a low-sulfur compound design and (3) Eliminate burrs by improving the extruder's nozzle

Realize wants of "Change"

Cost saving, process improvement and rationalization achieved!

Breakthrough Point

Okayasu Rubber's production technologies are available for integrating the primer coating and taping processes into the line (extrusion process).

case. 3 Protector

<Application> Overfender for wheel arch (gap filler)

"Customer need/problems"

- It was an exterior part that remained yet to be coordinated with the surroundings in detail, so that mass production needed to be established with the minimum lead time after the specifications of the part were finalized.
- Four different types of parts: taped, total 42,000 m/month
- Extrusion process is carried out by other companies than those who are responsible for other manufacturing processes, which implies that it may be difficult to meet the target cost indicated by the end user.

CUSTOMER ACTION

1 Request

Low-cost, high-quality products would be delivered in time. Due to a shorter lead time to trial production, it would be started for all four different parts soon after our estimate is issued.

3 Trial production - order

Two days after receiving our estimate, trial production of the four different parts would be ordered. All of the four parts would be delivered in one month.

OKAYASU ACTION -

Internal review and estimation

First, extrusion + primer coating, followed by taping by outsourcing. For mass production, in-house taping has to be



4 Trial production

After extrusion of four different types of parts, detailed adjustments shall be made for the nozzles. A primer coating iig was developed for integrated coating operation. Taping performed at the later process.





5 Discussion for trial production

Tier 1: Visited together. Advised that taping be performed in an integral manner in the mass production phase. Schedule adjustment.

6 Check before mass production

Detailed adjustments such as packing specifications. Products taped by the in-house process submitted.

preparation

Preproduction Develop an integrated taping machine (our own design). Install cameras that monitor taping that is out of place.

8 Production





ntegration of the post-process



Mass production

Meet the QCD requirements - low cost.



Realize wants of "Change"

A single-line operation of all processes leads to achieving the target cost!

requests to make breakthroughs.

Breakthrough Point

One-stop production system & Follow-up for process improvement

Case. 4 Butterfly quarter vent 2 kinds (black and gray)

<Use> A butterfly is installed in the duct quarter vent, which is the exhaust port for the air in the vehicle interior, and acts as a check valve to prevent exhaust gas, dust, etc. from entering the vehicle interior.

"Customer need/problems"

- We have to respond to requests for cost reduction from end users "Requirements"
- Focus on butterfly quarter vents being used in large quantities

CUSTOMER ACTION

1 Requirements for the product

Requirements for specifications (dimension etc.) and quality. It is necessary to evaluate the weather resistance using cold and heat cycle testing that simulates the actual onboard climatic environment

Point Rubber sheet manufacturers use large-scale manufacturing facilities leading to larger equipment costs and fixed costs. The thin rubber sheets also raise the cost. Commercial rubber sheets of standard sizes, different from the desired size, cause the yield to decrease.

OKAYASU ACTION

2 Internal review

Focusing on production processes and commercial flow.

<Previous system>Ready-made rubber sheets purchased from a manufacturer were transported to a processing company where they were processed and then delivered. Since the product is as thin as 0.3 mm or 0.5 mm, the processing cost is high, and the post-transportation process by other companies raises the cost further. → Both these cost-raising factors can be eliminated by changing the processes to in-house ones.

B Discussion



Internal Using a wide continuous extrusion & vulcanization facility, extrude a thin rubber sheet whose width is appropriate for improving the yield, processing continuous punching. Cost reduction achieved by increasing yield and reducing transportation costs and processing costs. As a result, the product price was reduced by 15%. Cold and heat cycle testing was carried out using the test equipment of Okayasu Rubber.

Trial production - order

According to the discussion results, trial production was ordered.

7 Sample evaluation

Samples and all evaluation items could meet the requirements.

9 VA review and process improvement

roblems Work pieces stick to each other in the assembly process, so that the robot cannot take them one by one leading to

failure in assembly (work pieces in black stuck to each other while

<Advantages> Replacing the one-sheet supply system with a

The manual assembly process was reviewed with a view to

4 Internal review

Develop a compound material appropriate as a thin, wide rubber sheet for continuous extrusion. Modify the existing facilities so that they can be used for continuous punching of thin sheets. Develop an automatic machine for winding rubber sheets.

6 Trial production and test

Trial production using a two-sheet feeding system in place of the previous one-sheet system to improve production efficiency. Cold and heat cycle testing was carried out for the samples produced by trial production. Requirements for product dimensions and cold/heat weather resistance could be met. Parts produced by trial production were delivered

8 Mass production

Two-sheet system \rightarrow Automatic sheet winding \rightarrow Continuous punching

10 Internal review

Study how to solve the problem of sheet-to-sheet sticking. The sheets in gray that did not stick to each other were chosen for study as a possible material.

Trial production

Eliminate sheet-to-sheet sticking. Test the hardness, tensile strength and elongation using sheet samples.

those in gray didn't).

The robot system can produce 1,000 work pieces as a trial production (the previous system required additional 12 Trial production work for separating sheets and removing jamming once in 20 cycles of operation) → The robot system is free of such errors. Successful VA through the follow-up after starting mass production.





two-sheet system as a feeder of rubber sheet materia





Automatic winding

Roll of sheet material used for continuous punching

Realize wants of "Change"

Cost reduction with a one-stop production system

Successful improvement!

BreakthroughPoint

Supporting quickest launch of new part production projects Reinforcing a mass production system to meet increased demand due to a competitor's withdrawal

Case. 5 Cable protector

<Application> Automobile cable protector

"Customer need/problems"

- The current supplier of the protector withdrew from the business.
- Mass production has to be started within the shortest lead time
- The price would be as close to the current price as possible.
- About 900 different types of parts totaling 325,000 m/month

duction time required (for 24 hours operation): 301 hours/line (not including setups and other preparation times) (Example) Number of working days per month: 20 days - 480 working hours/line for 24-hour operation

OKAYASU ACTION

New parts production expected: 25 t/month Ratio of parts made by extrusion:

Parts produced by extrusion: 40 t/month

Background and estimation

CUSTOMER ACTION

Partly because it had a current business partnership with Okavasu (supplier of sponge protector), the customer requested Okayasu to join the project. The customer requested us to supply quality products at low cost with the shortest lead time. Despite the shorter lead time to trial production, we have to prepare estimates for 900 different products.

4 Trial production - order

Trial production was ordered for evaluation. Select cross-sections of parts whose production volume is relatively large.

6 Evaluation by trial production

Evaluation by trial production Cracking test for a heat-resistant polyester part. Fitting test.

2 Internal review

In order to achieve a price closest possible to the current price. low-cost materials shall be selected but without degrading the quality, and material compounds shall be examined. To meet the large production volume required, we shall study other production methods that can help to accelerate the present mass-production Study for increasing the capacity of the extruders and extrusion lines.



+25t

Usage ratio of

materials produced by

60%up

3 Preparation for trial production

Studied whether it was feasible to increase the speed of the extrusion process. ⇒ Proved feasible Our

5 Trial production

After manufacturing the nozzle, trial production was carried out. Parts produced by trial production were delivered.

7 Discussion for trial production

10 Evaluation by trial production

Evaluation by trial production.

polyester part. Fitting test.

Cracking test for a heat-resistant

Passed the fitting test. Cracking occurred in a part made of heat-resistant polyeste

Reviewing the material compound *The thermal aging test for EPDM is required to be conducted at 120°C for 72 h. Therefore, the above test condition is likely too severe





8 Internal review

Study for additives available for the heat-resistant polyester material. Discussion meeting between the customer, present supplier and Okayasu.





9 Trial production

Trial production using a new material (compound) was carried out.



11 Discussion for trial production

The heat-resistant polyester material passed the crack test. Delivery method, packaging specifications, and timetable for mass production were confirmed. Because there are a large number of different types of products and considering the SDGs initiatives, we, following the practice of the petitors, considered replacing the delivery containers of card



Along with the SDGs initiative, delivery containers of returnable boxes are used in place of cardboard boxes.

12 Check before mass production

Detailed adjustments such as packing specifications.

13 Mass production

At first, 85% of the total demand was produced by Okayasu Rubber Co., Ltd. For 100% production, on extrusion line was added.

Maximum of one year of lead time is required to enter into mass production after we are requested to do so.



Realize wants of "Change"

Designing all aspects including naterial compounds and production

Success in quick start!

requests to make breakthroughs.

BreakthroughPoint

Okayasu Rubber's production technologies are available for integrating additional processes into the line (extrusion process), Silicone coating, primer coating and taping within the line (extrusion process).

Case. 6 SEAL RUBBER

<Application> Buffer between headlight and bumper

"Customer need/problems"

• There were no such companies that could do all operations of taping, tab-taping, silicone coating on one side and punching.

- CUSTOMER ACTION -

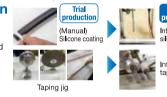
1 Estimation

We want to do all the processes at a low cost. The specifications are different between the L and R parts. A special process that requires both silicone coating and taping.

*Silicone coating on one side and taping on the other side. Functional requirements: the silicone coated surface must have a good slipperiness and the surface to be taped must be adhesive.

3 Discussion

Trial production was performed completely manually. It was agreed that mass production would be automated except the punching



OKAYASU ACTION

2 Internal review

The part required had a form different from the previous ones and it had a portion in which some angles were specified. We had to study whether it was possible to make the part by extrusion. Designing a process in consideration of the final product specifications. We were not sure that it was possible to integrate the taping and silicone coating operations with the main process, so they have to be done manually at first. Finally, silicone coating and taping will be integrated into the line. Since the final specifications differ between the L and R parts, examine the option of punching at a later stage.

4 Internal review

A taping jig needed for integrating the process into the line was developed. A sprayer for coating silicone was developed. A simple die was developed.

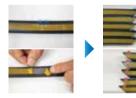


Punching jig

5 Discussion

Purpose of the tab tape: Make the L & R parts distinguishable; and it can be pulled to make it easier to peel off the release paper (improvement of workability), Previous specifications: The release paper of the tape is cut at the center of the product, and tab tape is applied to the left and right sides of the cut. *Both the customer's and Okavasu's workability is bad.

Proposal for revised specifications: Some tab tape to make it easier to peel off the release paper is applied at one end of the product only. Reduction of process time



Detailed adjustments such as packing specifications. Check the

quality and workability through trial production.

was carried out. Packing specifications were determined. Mass production

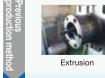
6 Preproduction preparation

A taping jig needed for integrating the process into the line was

developed. A sprayer for coating silicone was developed. Trial production

using these devices + monitoring "taping out of place" using cameras. A die available for mass production was developed. Trial production

Meeting requirements for complex specifications. Satisfying customer's product specifications taking into



7 Check before mass production









Integrated silicone coating Integrated primer coating Integrated taping









Completed

Realize wants of "Change"

Success in improving complicated production processes

Okayasu supports your life As a manufacturer, behind the scenes.

our company handles products of various materials and shapes.



Vehicle related

- Car protector
- Insulator rubber
- Water packing for car air conditioner
- Seat for cabin air pressure regulating valve
- Rubber for bonnet cushion
- Buffer material for weather strip
- Grommet for car wiring
- Cushion for fuel tank
- Cable protector



Components for light electrical appliances

- Vibration-damping rubber for air compressor
- Rubber bush for air compressor
- Silicone spacer
- Airtight packing for blackboard eraser
- Vibration-damping sponge rubber
- Pipe fastener for outdoor unit
- Drain air backflow preventer
- Air conditioner drain hose



Infrastructure, building, and industrial use electric power related

- · Seat ring for butterfly valve
- · Sound insulation outlet cover
- · Water cover for balcony
- · Water packing for traffic signal · Tactile blocks for visually impaired people
- Door rubber packing
- Doorstop rubber
- · Shutter sponge
- · Light-shielding packing
- Rubber for jointing between floor tiles





Housing equipment

Light shielding packing for lighting fixture

· Highly foamed cushion for toilet base

• Perforated rubber lid for sink

• Cord bushing for water faucet

• Floor mat for bathroom

Waterproof packing for

switchboard

related

Rubber plug for bathtub

• Rubber nut for toilet

Step offsetting mat

Food, medical and nursing care related

- Packing for medical pail
- Slope board for wheelchair
- Rubber hose for cryotherapy
- Slip-preventive rubber for handrail to help people stand
- Medical wrist band







- Rubber bat for practicing swinging
- Jump rope grip
- Grip for lawn mower





· Waterproof gap-filling plate for building material







OKAYASU Brand (Okayasu Rubber Standard Products)

Utilizing our own technological capabilities, we have developed unique, standardized products. Our products are available also on the Internet shops. (Excluding elastomer)







· "Tough Long" sheet • "Tough Long" microcell



Fukuraku series · Kitchen floor mat

- · Toilet floor mat · Washstand floor mat

· Fatigue-reducing floor mat



(round cord, sponge)



- Sponge pipe
- Sponge square cord Sponge semicylindrical
- U-shape grooved rubber







Standard products



· Sponge rubber sheet (sponge



Elastomer

- **Elastomer series** General purpose series
 - Vibration-dampening series
 - High specific gravity series



Integrated system from design to production. Taking advantage of our capabilities of designing production processes, we shall continue creating integrated, one-stop production systems.

Our one-stop production systems consisting of our own designed general-purpose machines will lead to higher efficiency in production.

We are actively investing in developing processing machines and robots.

Production Process

Design, test and trial production processes

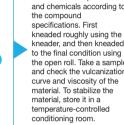
internally. We can develop new properties and functional requirements for the parts to be made from them. Our testing capabilities include physical property tests, resistance tests and adhesion tests. Trial production before mass production is done to find production-related problems including those with productivity, physical properties and appearance, and the prototypes and the data obtained ar submitted to the customers.











amounts of components

Refining process











Extrusion process

A molding method in which a high pressure is applied to a material in an extruder and thus the material is continuously extruded through a nozzle. The cutting process determines the cut dimensions taking into consideration data regarding material shrinkage. The taping process tapes the work piece as an integrated operation during the extrusion process. In addition, various processes are contained in the extrusion production system so that they can be streamlined into a one-stop system.















ction molding proces

A molding method in which a material is heated, softened and injected into a heated mold at high pressure. All operations from feeding the material to removing the product are automated.



Various processes

After molding, these processes are used as required. Performing automatic bonding between sections of an endless product or continuous punching in an integral manner within the molding process is advantageous as the cost can be reduced.















Finishing and shipment inspection

Manually remove the burrs from the molded product using jigs and scissors.



Various tests and measurements such as those for dimensions, specific gravity, hardness, tension and appearance can be done depending on the product type.



Shipment

Main materials

- EPDM (Ethylene-propylene rubber)
- CR (Chloroprene rubber)
- NBR (Nitrile rubber)
- · SI (Q) (Silicone rubber)

Corporate Profile

Company name Okayasu Rubber Co., Ltd.

Start operation April 9, 1936 April 9, 1947 Founding 30 million yen Capital Soichiro Oka President & CEO

Number of employees 202 (group total), 97 (Okavasu Rubber only) 271-1 Yamadera-cho, Kusatsu-shi, Shiga 525-0042 Japan Head office

Phone number 077-562-7271 (switchboard number) Domestic sales offices Shiga, Osaka, Saitama and Aichi

Malaysia

Domestic plants Shiga (site area: 15.626 m2: total floor area of

buildings: 6.453 m²)

Overseas branches United States of America



Our social media accounts:





You can view various pieces of content such as "Learning About Rubber/Factory Tour" and "Product Lineup."

Through these easy-to-understand videos, you can see how the products are produced in the factory.







For details, click here V

Environment and CSR

ISO certificate acquisition status

■ Head office plant ISO 14001:2015 acquired on February 27, 2001

ISO 9001:2015 acquired on March 28, 1997

■ Malaysia Plant ISO 9001:2015 acquired in March 2005

ISO 14001:2015 acquired in March 2004

Business Bases

Head Office Plant

Overseas plants

271-1 Yamadera-cho, Kusatsu-shi, Shiga, 525-0042 Japan TEL: 077-562-7271

E-mail: okayasu.pm@okayasu-rubber.co.jp Consistent operations for designing compounds of rubber materials, designing and manufacturing molds and dies, processing, and quality assurance

Nagoya Office

4th Floor, Nagoya Itochu Building, 1-5-11 Nishiki, Naka-ku, Nagoya-shi, Aichi, 460-0003 Japan TEL: 080-8943-1599



(MALAYSIA) SDN.BHD. Selangor, Malaysia

Lot 3846, Jalan 4-D, Kampung Baru Subang, Seksyen U6, 40150, Shah Alam, Selangor Darul Ehsan, Malaysia TEL: 603-6157-2001

E-mail: malaysia@okayasu-rubber.co.jp Web: https://www.okayasu-rubber-malaysia.com/ We can meet the needs of customers using the same quality assurance systems and facilities as those in Japan, but at lower cost

Osaka Office

9-13, Higashiobashi 3-chome, Higashinari-ku, Osaka, 537- 0024 Japan the head office.



330-0854 Japan For telephone inquiries, please contact

the head office.

Okayasu Rubber America, Inc.

12762 O'Connor Road, San Antonio, Texas 78233 USA



Texas, USA

TEL: +1-210-880-1310 E-mail: keijiro.oka@okayasu-rubber.com

Joint venture company profile

Trade name/logo



Sales Headquarters/290 Ozone, Yashio City, Saitama Prefecture (inside Ukawa Rubber Mfg. Co., Ltd.) TEL: 048-995-7481 Business location Delivery Center: 271-1 Yamadera-cho, Kusatsu City, Shiga Prefecture (inside Okayasu Rubber Co., Ltd.) TEL: 077-562-7271

Business details Sales of products jointly developed by Okayasu Rubber and Ukawa Rubber Manufacturing

■ Background and purpose of establishing the new company

As companies in the same industry, Okayasu Rubber and Ukawa Rubber Manufacturing believe that they should aim to grow together by utilizing their respective characteristics in order to adapt to change, and have been discussing the possibility of collaborating, transcending the barrier of the confidentiality of know-how. As part of this effort, we have developed the highly restorative rubber sponge long sheet "Tough-long SSF-Sheet"." With this completion, a new company has been established for the purpose of selling the functional materials of both companies. The new company aims to provide optimal solutions to customers by combining manufacturing know-how, industrial knowledge and sales power, improving its presence in the market and addressing a wide range of needs.









Ukawa Rubber Mfg. Co., Ltd.

Super Set Foam® (SSF)

[Tough-long SSF-Sheet™]

13