



SILICONE CUSTOM PROFILES

The go-to elastomer for engineered products and applications in extreme environments.

CUSTOMIZABLE TO MEET JUST ABOUT ANY NEED

With a wide range of compounds available



EXTREME HIGH / LOW
TEMPERATURE TOLERANCES



OIL
RESISTANT



FLAME
RETARDANT



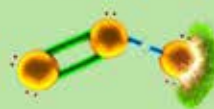
UV RESISTANT



SOLID OR SPONGE



STEAM
RESISTANT



OZONE
RESISTANT



METAL
EXTRACTABLE

And profiles from the most simplistic to the most complex



CORDING



TUBING



COVERING



CUSTOM PROFILES

SILICONE IS THE CHOICE OF ENGINEERS

For use in thousands of applications throughout industry

AEROSPACE

HVAC EQUIPMENT

MILITARY

ELECTRONICS AND
TECHNOLOGY

MEDICAL

INDUSTRIAL

MARINE

FOOD AND
BEVERAGE

AGRICULTURAL

AUTOMOTIVE

SILICONE PROFILES



ARCO[®]
SILICONE
A Division of Alliance Rubber Company

Questions to ask in order to get meaningful information from your customer.

PHYSICAL PRODUCT APPEARANCE QUESTIONS

EXAMPLES

What are the basic required dimensions of the finished product?

tubing with inner diameter, outer diameter and length.

Cording with outer diameter and length.

Bands with inner and outer diameter and cut width.

What is the expected color, if any?

General color such as red, blue, or green.

Specific PMS color such as Pantone 13-0340.

Is there a specific cross-sectional profile required?

Cross-sectional profiles might resemble letters such as "P", "D", "O", etc.

Other characteristics such as finned extensions.

CAPABILITIES QUESTIONS

EXAMPLES

What physical attributes need to be built into the finished product?

Solid Silicone.

Sponge Silicone with open or closed cell.

What is the Shore durometer (hardness) required?

65 Shore A durometer, or possibly, a softer 50 Shore A durometer.

What is the specific elongation requirement?

Must stretch to 800% the original size without breaking.

Must break when stretched to 400% its original size.

What is the ultimate tensile strength requirement?

Must be able to withstand a specific amount of force when stretched without breaking, or vice versa.

Does the product need to withstand a specific temperature range, and if so, how long must it withstand this temperature?

Must be able to withstand 500°F for no more than 4 hours.

What is the Specific Gravity Range required, if applicable?

A specific number to determine the density of the product and the resulting count per pound.

Does the product require a specific tear strength?

Bands that need to hold up against a significant amount of twisting and pulling without tearing.

Are there any mandated compliances that the finished product will need to meet?

Such as FDA Compliant for direct food contact.

What are any other specific tolerances (not mentioned above) that must be considered in the dimensions or properties of the finished product?

APPLICATION

In the event that the customer doesn't have the specific details mentioned above, it's always helpful to know as much as possible about the application of the product in question. The details involving the application will be the key to narrowing down the perfect customized silicone compound, or, if a standard silicone would be able to suit their needs.

