

UL 157 Gaskets and Seals Ratings for BISCO® Silicones and PORON® Polyurethanes

What are UL 157 Gasket and Seal Ratings?

UL (Underwriters Laboratories), an independent safety certification organization, created UL 157 as the Standard for Gaskets and Seals.

The Ratings are applicable to enclosures which must seal against the ingress or leakage of solids (such as dust), liquids or gases, or other factors dependent on the design and construction of the equipment in which the enclosure is used.

Why are UL 157 Ratings important?

UL 157 Ratings provide a profile of a material's properties, helping product designers and engineers improve application design, uphold safety standards, and understand how a material will perform in a particular application.

UL 157 Ratings Categories

The Ratings break down into the following categories:

- Gaskets and Seals (JMLU2)
- Gasket Materials (JMST2)
- Seal Rings (JOHX2)
- Composite Gasket Materials (JMST)



There are two UL 157 Rating categories that are applicable to BISCO® and PORON® materials.

Gasket and Seals (JMLU2)

This is the main category covering elastomeric and composite gasket materials including O-rings, seals, shaft seals, flexible cellular gaskets, and others.

The Rating applies to BISCO Silicone materials.

Properties investigated include tensile strength, elongation, compression set, tensile set, hardness, and low temperature.

Additional tests examine how these properties hold up after accelerated aging and exposure to a variety of environments.

Gasket Materials (JMST2)

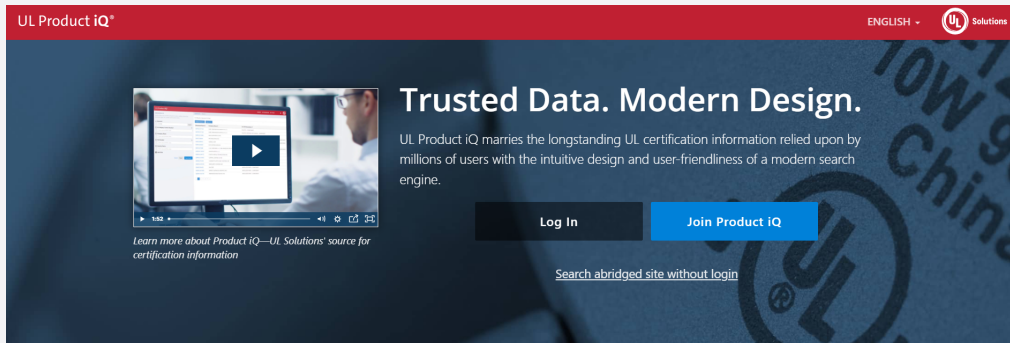
This category includes elastomeric materials in sheet form, formed or cut gaskets.

The Rating applies to PORON Polyurethane materials.

The next page provides information on which Rogers elastomeric materials meet JMLU2 and JMST2.

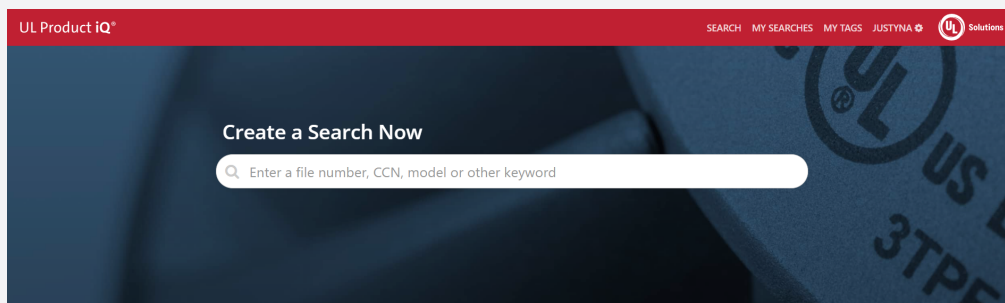
Which BISCO® Silicone or PORON® Polyurethane materials meet JMLU2 and JMST2?

To view which BISCO and PORON materials meet UL 157 Gaskets and Seals Ratings, create a free account at <https://iq2.ulprospector.com/en/login> by clicking "Join Product iQ".

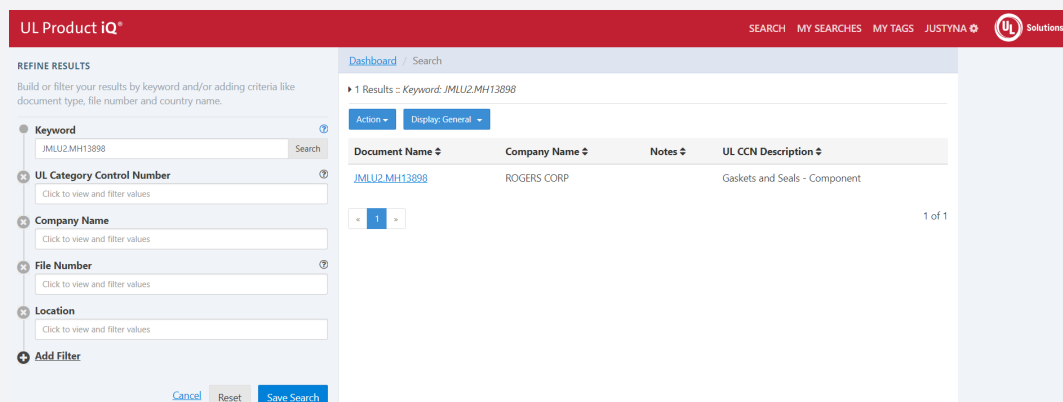


Next, enter a file number into the search bar according to the information below:

- For BISCO silicone materials, search for the file JMLU2.MH13898
- For PORON polyurethane materials, search for the file JMST2.MH15464



Select the Document Name to view the specific products certified to the corresponding UL rating.



Contact the product experts at the Rogers Solutions Center - solutions@rogerscorp.com - for help with material selection, questions, or for more information.