



lemmur  
ITALY

*muriel*<sup>®</sup>

**On the edge of elastic yarns**

LeMur with more than 25 years of experience



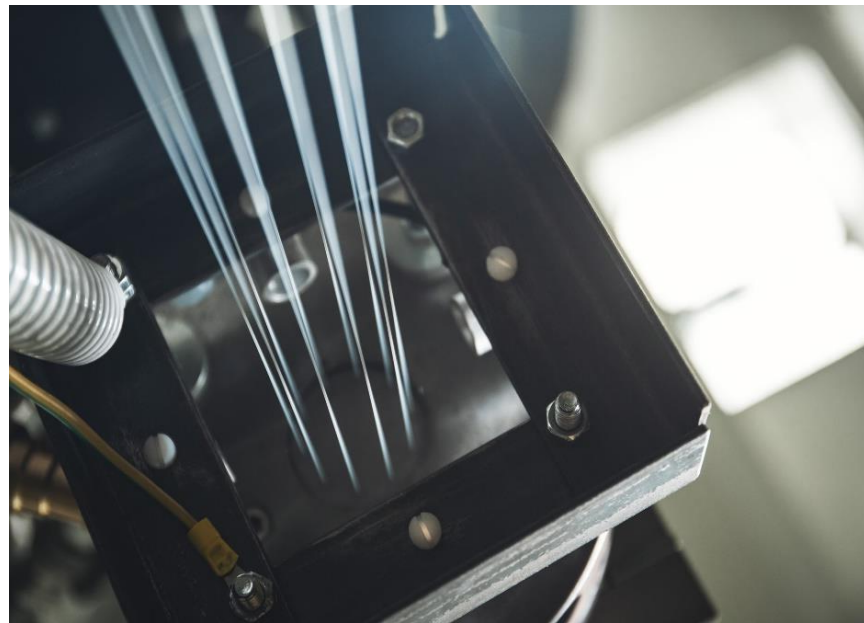
### Elastic Yarn Covering

- Single Covering
- Double Covering

### Silicone Spinning

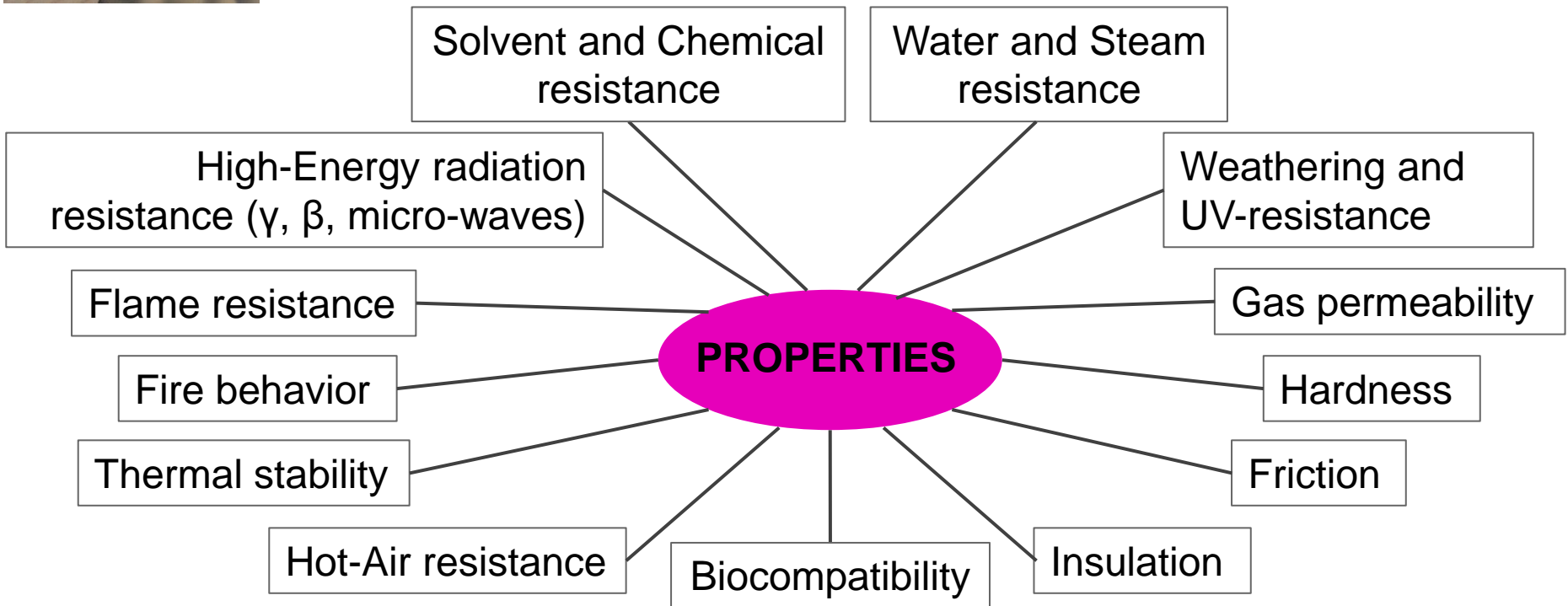


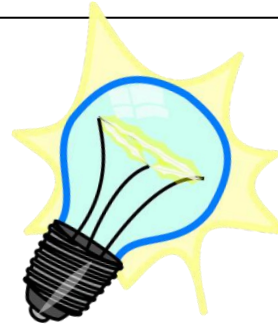
- ✓ Innovative Products
- ✓ High Quality Products
- ✓ Short Leadtime
- ✓ Customer service



**Silicone** is a material based on Silicon (**Si**), the second worldwide most present element

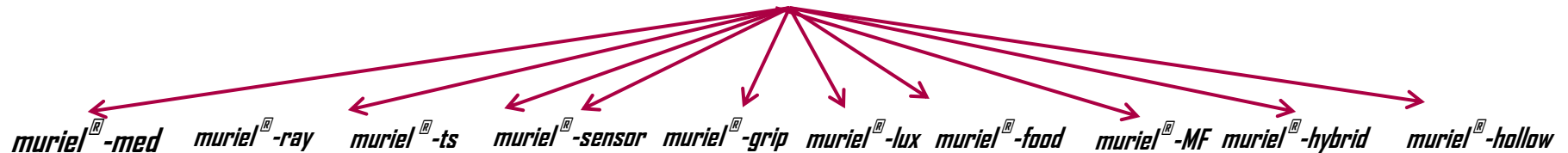
Long-lived availability



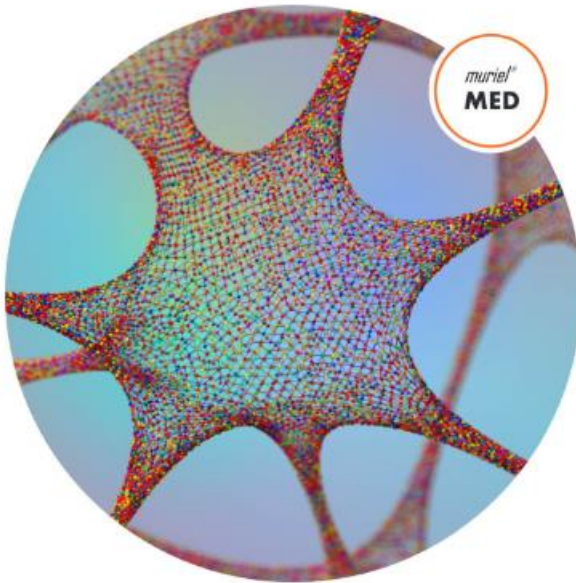


Unique mechanical, chemical, thermal, physical properties

***huriel***<sup>®</sup>



## **muriel<sup>®</sup> MED**



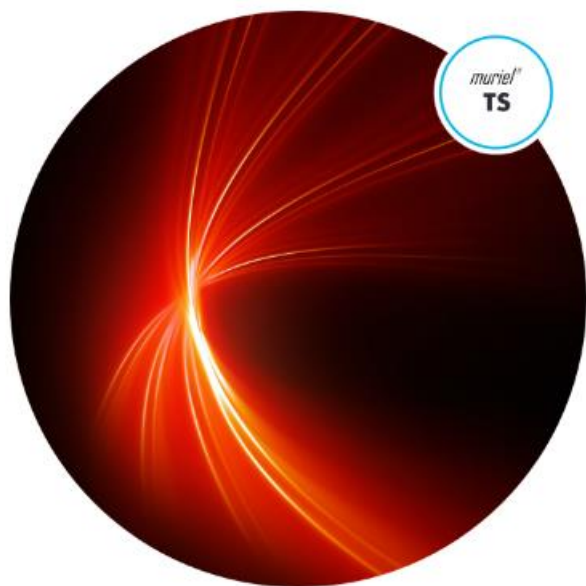
### **Performance**

- ☑ Biocompatible
- ☑ Hypoallergenic
- ☑ Not absorbable by the human body
- ☑ Skin friendly

### **Description**

Muriel MED is a highly biocompatible yarn used for plastic, aesthetic and corrective surgery. It does not cause skin irritations, allergic reactions or rejection and is not absorbable by the human body, meaning it does not degrade.

Thanks to all these features it can be used on the human body for internal or external applications. In addition, this yarn can be used as suture thread or elastic bandage for treatments as well as supports. Currently Elasticum<sup>®</sup> is a brand from the company Korpo that uses the elastic yarn Muriel MED as suture thread for plastic surgery for liftings and fillings.



## *muriel<sup>®</sup>* TS

### Performance

- ☑ Temperature resistance
- ☑ Non skin burning
- ☑ Non-harmful gas emission
- ☑ Comfort and security

### Description

TS stands for “thermal stability” and refers to the yarns capacity to maintain its mechanical properties in various temperatures, from below zero to hundreds of degrees above zero. This guarantees elasticity in any textile where the yarn is used. While, even if only for a short period of time, it can resist temperatures up to +400°C.

In the same way the fire behaviour can be considered unique. When in contact with flames Muriel TS forms a not harmful ash avoiding skin burns, doesn't drip and releases non-toxic combustion gasses. These characteristics makes this yarn perfect for protective and innovative textiles.



## *muriel<sup>®</sup>* **RAY**

### **Performance**

- Weathering resistance
- No ageing phenomenon
- Steam resistance
- Chemical resistance

### **Description**

Muriel RAY distinguishes its self because of its great resistance to chemicals and climate factors, and UV and gamma rays. This means the yarn is highly durable and can be used for various applications involving direct exposure to sunlight and weathering. In fact, unlike other polymeric materials, this yarn is not subjected to ageing phenomenon and will maintain its mechanical properties for a long period of time.

This great feature gives it the chance to create a revolutionary product in the field of climate control and light management, for instance selective curtain or indoor and outdoor textiles. The ability to withstand chemically aggressive environments also makes this product perfect for structural and architectural solutions.





## *muriel*<sup>®</sup> **GRIP**

### **Performance**

- Grip
- Comfort
- Moisture management
- Elasticity
- No post-processes

### **Description**

Muriel GRIP as the name implies has a high-level grip against all surfaces, and above that the yarn is highly hydrophobic and characterized by low tensile strength. The combination of all these features in Muriel GRIP are used to create anti-slippage zones that are comfortable and with a high degree of moisture management, giving stability with low compression.

Furthermore, the yarn can be inserted in specific areas, directly during the production without additional processes. Its primary use focuses on socks, hosiery and Seamless but it actually can be utilized for any product that has a need for anti-slippage zones for example in sports clothing or underwear.

## **muriel<sup>®</sup> SENSOR**



### **Performance**

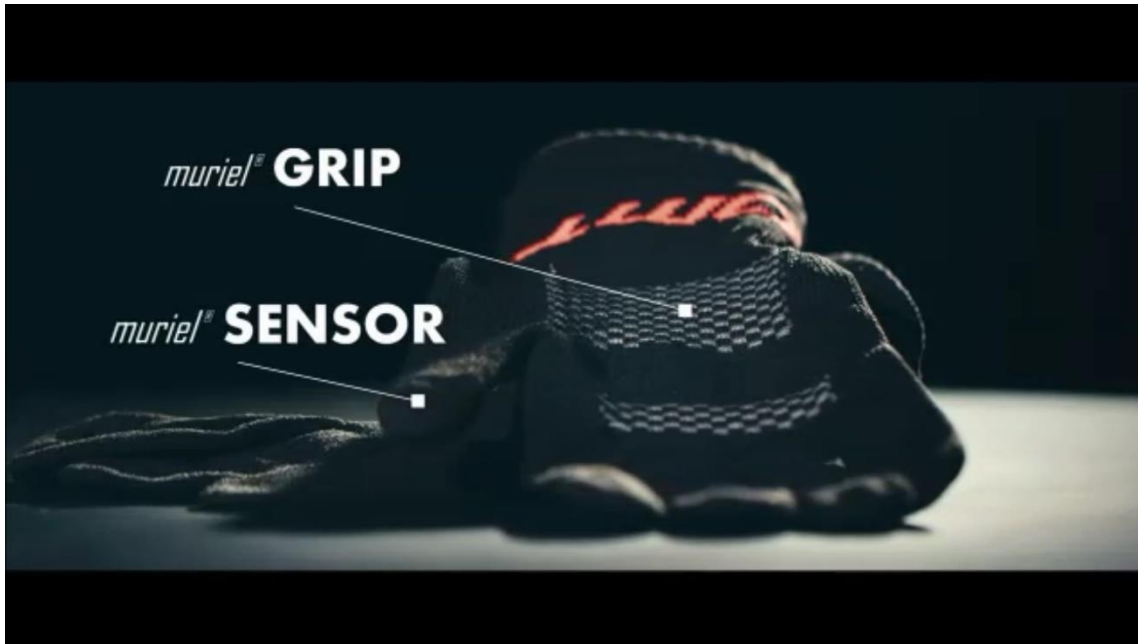
- Elasticity and low electrical resistivity
- Variable electrical resistance
- Sensitive, measurable and repeatable

### **Description**

Muriel SENSOR is a silicone yarn formulated with specific additives to gain a low electrical resistivity. The obtained electrical resistance varies linearly according to the yarn deformation.

With both stretching and releasing the yarn the electrical resistance will increase or decrease accordingly, assuring repeatability for multiple cycles. This function unique to the product can be exploited to create sensor systems and smart textiles

# Glove with high sensitivity



- Sensibilität
- Grip
- UV-resistance
- Touch-Screen
- Comfort

## **muriel**<sup>®</sup> **FOOD**



### **Performance**

- ☑ High temperature stability
- ☑ High resistance to fatty food
- ☑ Not harmful for humans
- ☑ Washable and reusable

### **Description**

Muriel FOOD is a product developed to be used in food-contact application. The yarn is suitable for long cooking periods of fatty food at high temperatures, with no migration of any substance from the yarn to the food.

It can be safely used to roast, grill or cook meat in the oven, and also for smoking as well as for preserving in vinegar or alcohol. Its organoleptic and health properties are maintained with Muriel FOOD, that is mainly applied for meat packaging purposes, as elastic food-bindings or nets.

# *muriel<sup>®</sup>* **HOLLOW**



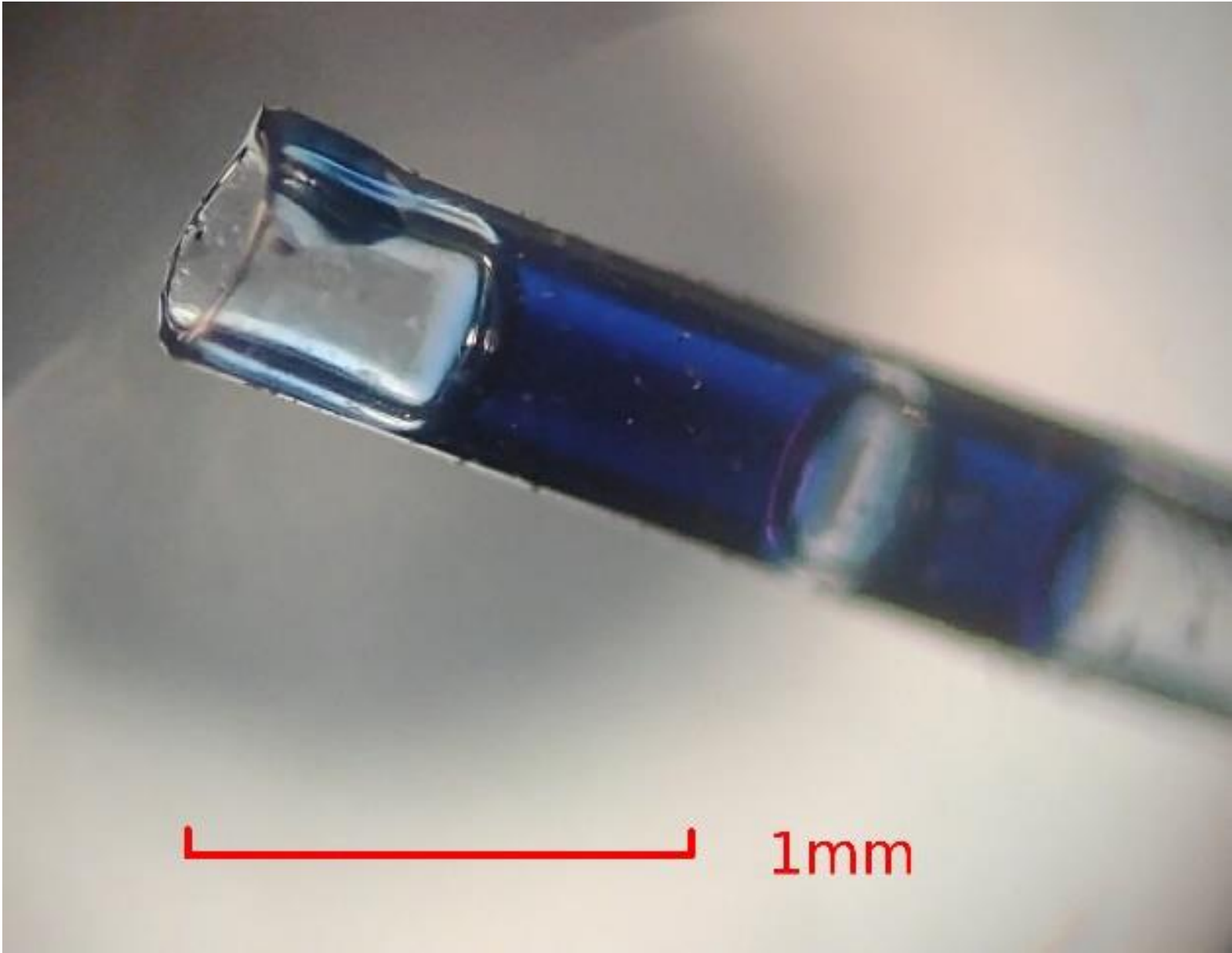
## **Performance**

- Elasticity
- Small dimension
- Thermal insulation
- Functional fluids

## **Description**

Muriel HOLLOW can be considered either a microtube or as its own name says a hollow silicone yarn. Due to its silicone nature, it is considered a perfect yarn for various applications in any type of environment.

It can be utilized just as it is, i.e. a tube, but also as an isolation system or it could be filled with a functional fluid for various applications.





## *muriel*<sup>®</sup> **HYBRID**

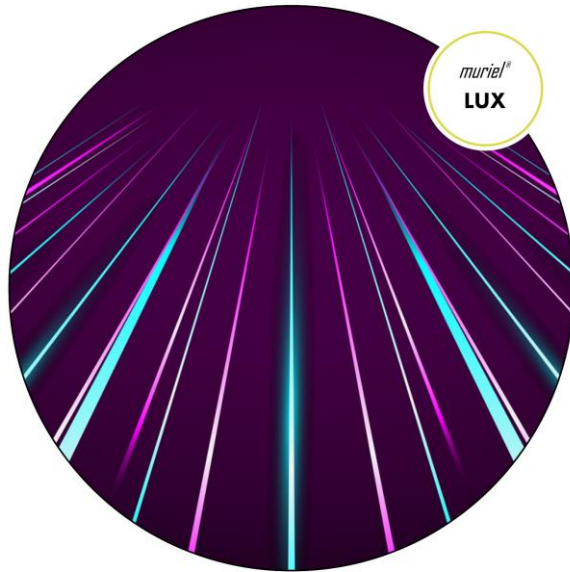
### **Performance**

- ☑ Combined properties
- ☑ Thermal stability
- ☑ Weathering resistance
- ☑ Chemical resistance
- ☑ Grip

### **Description**

Muriel HYBRID is a combination of the silicone (outside) and any kind of yarn (inside). Using a system of coextrusion it is possible to envelope the core yarn with a layer of silicone to protect them and lend them its typical characteristics.

This combination creates the chance to obtain composite yarns by merging the performance of two different materials creating an innovative and functional product.



- ✓ High Visibility
- ✓ High Comfort
- ✓ High Elasticity
- ✓ Thermal Stability
- ✓ Chemical Resistance



*Le Mur*  
— ITALY —



muriel<sup>®</sup> is Oeko-Tex<sup>®</sup> Standard 100 certified, class I product

muriel<sup>®</sup> production is protected by international patents

Together we create the Future



**THANK YOU FOR  
YOUR KIND  
ATTENTION**