

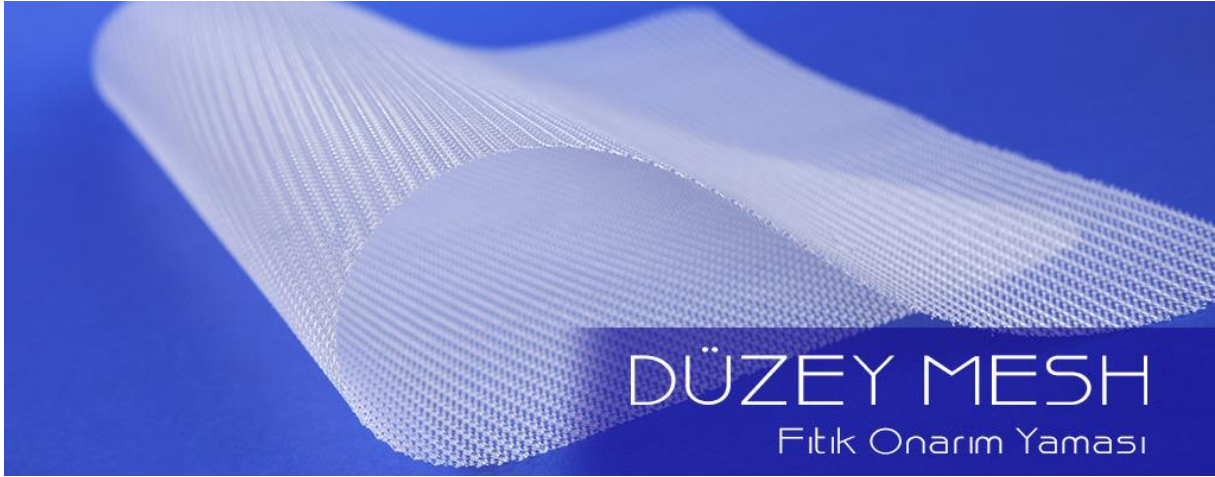
**PRODUCT DESCRIPTION OF MESH**

**INTRODUCTION**

**HERNIA PROSTHESIS**

Hernia refers to swellings that develop as the internal layers of core muscles weaken or tear apart. The membrane around the abdominals cause sacs as it is pushed out of the weakened abdominal walls. Hernia is formed most commonly in: pubic channels, femoral channels, around the belly, and surgical lacerations. The patient feels pain as he lifts heavy loads, coughs incessantly for a long time, strains, sits down or remains standing for a long period of time. The pain can begin suddenly and be intensive or else it can increase during the day in a manner that its location cannot be determined for sure by the patient. Intestines come in and go out of those swellings most of the time. Hernia results in labor loss and affects the quality of life in a negative way. It constitutes one of the most important problems in surgery, as it is a common disease. The most significant treatment is surgical operation. Among surgical alternatives, reinforcement with prosthesis materials has an important role. When there is not sufficient healthy tissue or else the defect is large, prosthesis material application turns out to be the first alternative. Our product mesh is a prosthesis substituted for tissue reinforcement. It is made of polypropylene suitable for medical use. The product is manufactured in clean room with Class ISO7.

## PHOTOGRAPHS



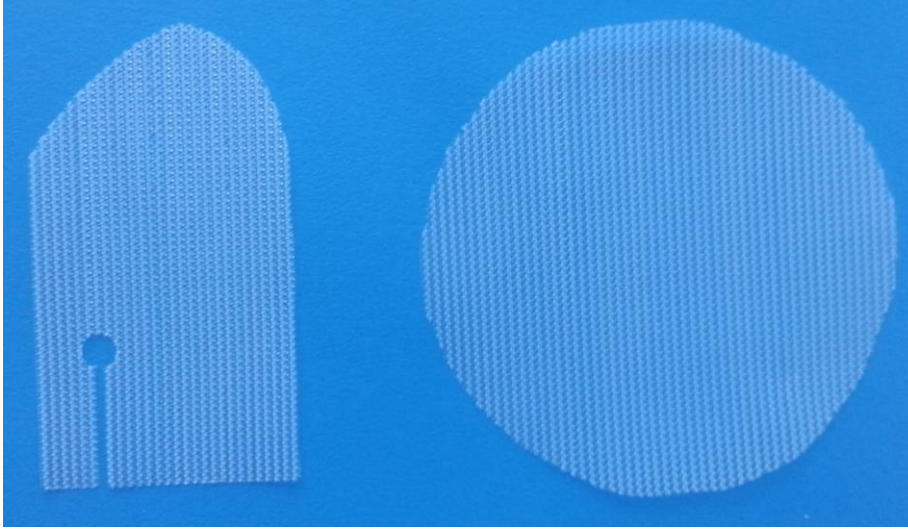
### PLUG MESH:

The groin region (area between the abdomen and the thigh) is part of the main abdominal wall. The abdominal wall is made up of several layers of tough connective tissue (similar to that of tendons and ligaments), muscle, fat and skin. Usually, a hernia starts out as a small tear in this connective tissue and expands. It is called "inguinal" because the intestines push through a weak spot in the inguinal canal, located in the connective tissue between layers of abdominal muscle. You can be born with a weakness in this connective tissue or it can be caused through repetitive lifting or straining. This stretching and tearing of tissue can be very painful. The mesh plug is inserted into the hole and secured in place. Operating and recovery times are reduced with this method.

The innovative shape simply conforms to the defect, stays in place, sutures easily, and will not collapse or "pop out" during the procedure.

It is used for recovery of femoral hernia and paraumbilical hernia other than Inhuinal hernia. The only difference from normal duzey

Polypropylene mesh is shape difference. Normal mesh is generally square and rectangle but plug mesh generally 2 parts. First part is round and the second part is like Vshape.



**PRODUCT SIZES/MODELS**

CODE	PRODUCT	BARCODE NO
DM55	POLYPROPYLENE MESH 5X5 CM	8680081330016
DM510	POLYPROPYLENE MESH 5X10 CM	8680081330023
DM611	POLYPROPYLENE MESH 6X11 CM	8680081330030
DM614	POLYPROPYLENE MESH 6X14 CM	8680081330047
DM7515	POLYPROPYLENE MESH 7.5X15 CM	8680081330054
DM813	POLYPROPYLENE MESH 8X13 CM	8680081330061
DM1015	POLYPROPYLENE MESH 10X15 CM	8680081330078
DM12515	POLYPROPYLENE MESH 12,5X15 CM	8680081330085
DM1515	POLYPROPYLENE MESH 15X15 CM	8680081330092
DM1520	POLYPROPYLENE MESH 15X20 CM	8680081330108
DM1530	POLYPROPYLENE MESH 15X30 CM	8680081330115
DM3040	POLYPROPYLENE MESH 30X40 CM	8680081330122
DM2030	POLYPROPYLENE MESH 20X30 CM	8680081330139
DM3030	POLYPROPYLENE MESH 30X30 CM	8680081330146
DMPS	PLUG MESH Q 7 CM	8680081330153
DMPM	PLUG MESH Q 9 CM	8680081330160
DMPL	PLUG MESH Q 11 CM	8680081330177

## **SPECIFICATIONS**

### **MATERIALS**

Non-absorbable & Monofilament Polypropylene

Mesh is constructed of knitted filaments of extruded polypropylene

### **TECHNICAL DETAILS**

Düzey Mesh:

Raw Material : Polypropylene  
Bursting Strength : 700 kPa  
Thickness : 0,50 mm  
Weight : 55 gr/m<sup>2</sup>  
Porosity : 1.3\*1.0  
Thread diameter : 0.15  
Indicate that it is : woven  
Elasticity : bidirectional  
shelf life : 5 years

## **CLASSIFICATION/RULE**

Our product is an implantable product. It is aimed to stay in the body for so long time.

For this reason, according to the rule 8 of MDD/93/42/EEC written below, the class of our product is CLASS IIB.

2.4. Rule 8

All implantable devices and long-term surgically invasive devices are in Class IIB unless they are intended:

- to be placed in the teeth, in which case they are in Class IIa,
- to be used in direct contact with the heart, the central circulatory system or the central nervous system, in which case they are in Class III,
- to have a biological effect or to be wholly or mainly absorbed, in which case they are in Class III,
- or to undergo chemical change in the body, except if the devices are placed in the teeth, or to administer medicines, in which case they are in Class III.

## SHELF LIFE

Our product's shelf life is determined as 5 years as results of the all tests made according to ASTM F1980 standards.