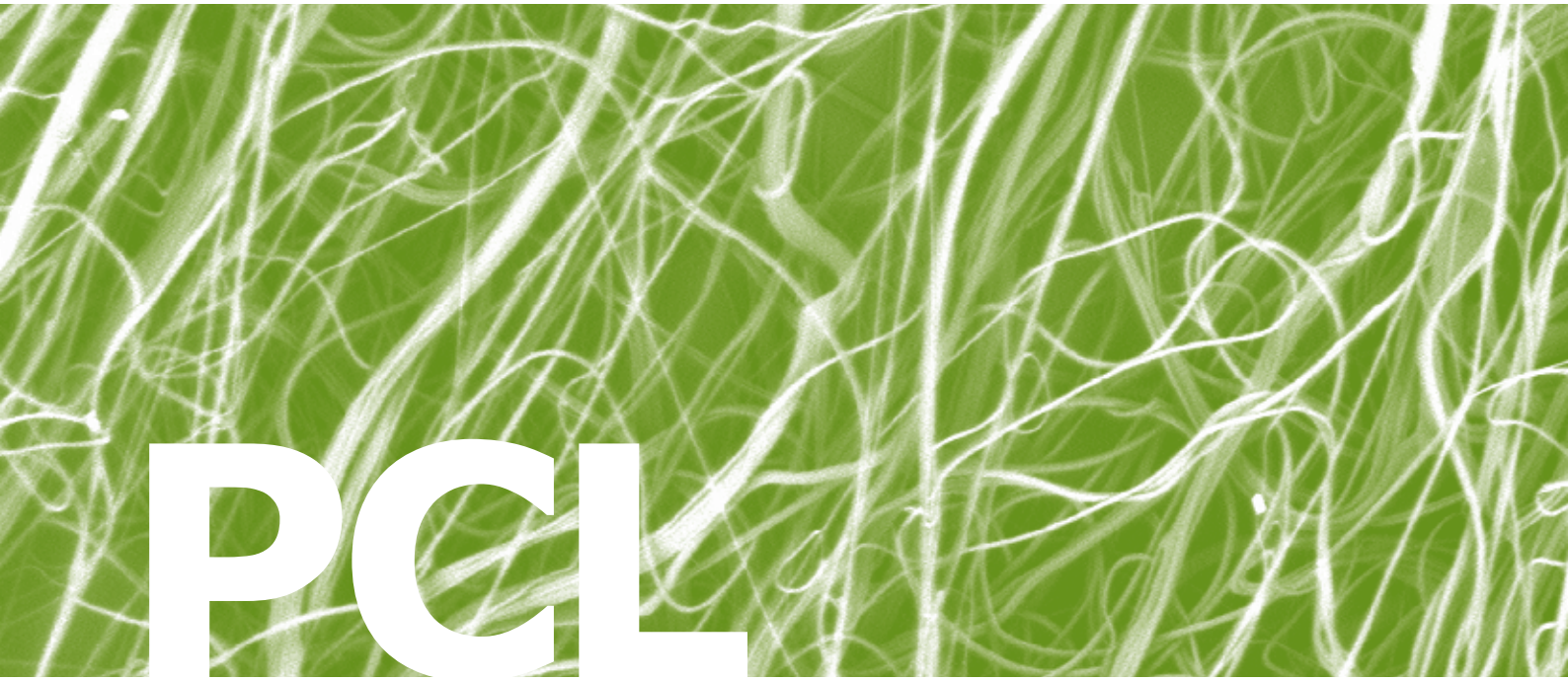
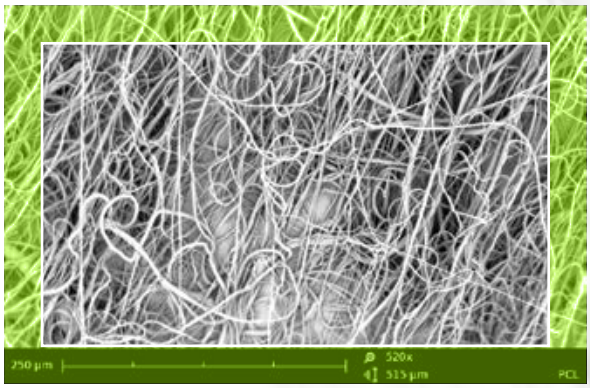


NnF MBRANE® – PCL (Polycaprolactone)

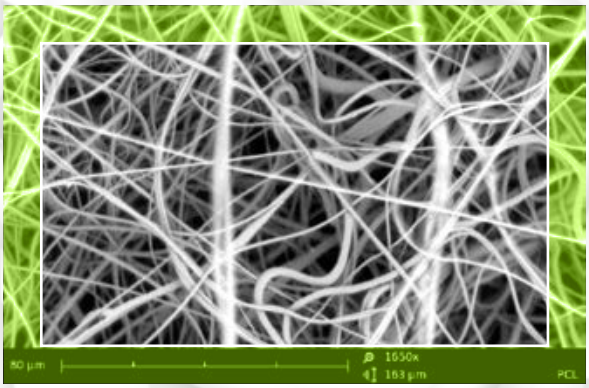
Product description

NnF MBRANE® – PCL (Polycaprolactone) is a novel kind of nanofibrous material produced by industrial technology operated by **PARDAM, s.r.o.** in the Czech Republic. Polycaprolactone nanofibers are exclusive biomedicine polymeric material, which can be produced as a nanofibrous layer, or in 3D cotton-like structure. It is a biocompatible biodegradable material, which can be used for nanofiber scaffolds or as implantable material with targeted degradation in vivo or as a cell-growth media in vitro. The higher surface area of nanofibers leads to better cellular attachment and easier growth of cells.

Images



SEM image, magnification: 520x



SEM image, magnification: 1650x

Physical properties

Physical form and structure

Polycaprolactone nanofibers in 3D cotton-like structure and nanofibrous layer

Material characteristics

fiber structure	**randomly oriented**
typical fiber diameter	**400-800 nm**
fiber length	**continuous**
physical form	**layer or 3D structure**
grammage	**0.5-5 g/m²**
air permeability	**breathable**
width of the roll	**max. 0,8 m**
maximum length of the roll	**2000 m**
melting point	**60 °C**
vicat softening point	**N/A**

Biodegradable | Breathable | Medically proved | Living cells compatible | 3D structure | Soft

Please feel free to contact us for more information.

Applications

Cell culture growing media | Implantable material | Biodegradable scaffolds | Stents

Important notice for purchaser

Pardam nanotechnology

Developed by Pardam nanotechnology www.pardam.cz

Produced by N4F Technology www.nano4fiberstechnology.com

Distributed by N4F Group www.nano4fibersgroup.com

Address | Jahnova 8, Zelené Předměstí, 530 02 Pardubice, Czech Republic