

# TRANSFER MEMBRANES



## 4. TRANSFER MEMBRANES

### 4.1 Neutral Nylon



#### Description and Use

GVS Life Sciences Neutral Nylon Transfer Membrane is a pure polymer impregnated by an inert polyester web. It is naturally hydrophilic and optimized for protein binding and for high, reproducible binding of nucleic acids.

**Table 1:** Product Characteristics

USP Class VI testing	Passed
Thickness	65 - 125 $\mu\text{m}$
Extractables	< 0.2% (< 0.0015 mg/cm <sup>2</sup> )
Nucleic Acid Binding	350 $\mu\text{g}/\text{cm}^2$
Maximum Operating Temperature	356°F (180°C)
Sealing Compatibility	Ultrasonics, Heat, Radio Frequency and Insert Molding
Pore Size Range	0.22 to 0.45 $\mu\text{m}$

#### Reliable Quality, Increased Efficiencies

This controlled microporous nylon membrane is cast on an inert, internal support web that gives it added dimensional strength and stability to prevent cracking, tearing, curling and breaking. This added strength and durability is essential in protocols that require aggressive handling, such as colony lifts and plaque lifts. In addition to the dimensional strength and durability of GVS Life Sciences Neutral Nylon Transfer Membrane, its retention of macromolecules can also be enhanced using UV cross-linking. This process can be used to maximize the signal retention of nucleic acids and preserve the integrity of DNA or RNA transfers. The purity and consistency of GVS Life Sciences Neutral Nylon Transfer Membrane, coupled with its added durability and sensitivity, make it an ideal membrane for use in medical research, scientific studies or test confirmations where precise biological pattern replications, such as DNA and RNA transfers, are integral to the success of the procedure.

#### Features and Benefits

- **Supported:** Has added strength and durability preventing distortion or contamination in multiple reprobings
- **High binding capacity:** With a nucleic acid binding capacity of approximately 350  $\mu\text{g}/\text{cm}^2$ , Magna Nylon - Transfer Membrane can bind a wide range of fragment sizes, increasing the efficiency of transfers
- **Hydrophilic:** Eliminates the need for wetting agents that can potentially interfere with biological processes
- **Lot-to-lot consistency:** Quality checks ensure lot-to-lot consistency, both down and across the polyester web, for dependable results every time

#### Typical Applications

- Southern transfers
- Northern transfers
- Protein binding
- Microarrays
- Macroarrays
- Dot/Slot blots
- Radiolabeled detection systems
- Non-radiolabeled detection systems
- Colony lifts
- Plaque lifts
- Library screening

#### Ordering information: Disks and Sheets

Pore sizes	Dimensions Packaging	82 mm 50/pk	85 mm 50/pk	132 mm* 50/pk	137 mm 50/pk	102x133 mm 10/pk	115x160 mm 10/pk	150x150 mm 5/pk	200x200 mm 5/pk
0.22 $\mu\text{m}$		1213409	1213410	1213411	1213412	1213422		1213416	1213419
0.45 $\mu\text{m}$		1213370 1214428*	1213372	1213373 1214509*	1213375 1214245*	1213384	1213391	1213379	1213380 1215310**
*100/pk    **25/pk									
Pore sizes	Dimensions Packaging	220x220 mm 5/pk	225x225 mm 10/pk	300x300 mm 5/pk	300x500 mm 5/pk	150x3000 mm 1/pk	200x3000 mm 1/pk	300x3000 mm 1/pk	4.75x11in 10/pk
0.22 $\mu\text{m}$						1213442	1213441	1213405	
0.45 $\mu\text{m}$		1213382	1224585	1213383	1213395	1213404	1213403	1213364	1214994