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|--------------------|--|-----------------|
| Product PN | 1213409, 1213410, 2323411, 1213412, 1213422, 1213416, 1213419, 1213441, 1213441, 1213405 | Mod. 984 |
| Description | 0.22 µm Magna Neutral Nylon Membrane and Discs and Sheets | Rev. 01 |

0.22 µm Magna Neutral Nylon Membrane Discs, Sheets and Roll



| PRODUCT DESCRIPTION | <p>0.22 µm Neutral Nylon Membrane and Discs and Sheets</p> <table border="1"> <thead> <tr> <th>Part Number</th> <th>Geometry</th> <th>Dimensions</th> <th>Packaging</th> </tr> </thead> <tbody> <tr> <td>1213409</td> <td>Disc</td> <td>82mm</td> <td>50/Pk</td> </tr> <tr> <td>1213410</td> <td>Disc</td> <td>85mm</td> <td>50/Pk</td> </tr> <tr> <td>1213411</td> <td>Disc</td> <td>132mm</td> <td>50/Pk</td> </tr> <tr> <td>1213412</td> <td>Disc</td> <td>137mm</td> <td>50/Pk</td> </tr> <tr> <td>1213422</td> <td>Sheet</td> <td>102x133mm</td> <td>10/Pk</td> </tr> <tr> <td>1213416</td> <td>Sheet</td> <td>150x150mm</td> <td>5/Pk</td> </tr> <tr> <td>1213419</td> <td>Sheet</td> <td>200x200mm</td> <td>5/Pk</td> </tr> <tr> <td>1213442</td> <td>Sheet</td> <td>150x3000mm</td> <td>1/Pk</td> </tr> <tr> <td>1213441</td> <td>Sheet</td> <td>200x3000mm</td> <td>1/Pk</td> </tr> <tr> <td>1213405</td> <td>Roll</td> <td>300x3000mm</td> <td>1/Pk</td> </tr> </tbody> </table> | Part Number | Geometry | Dimensions | Packaging | 1213409 | Disc | 82mm | 50/Pk | 1213410 | Disc | 85mm | 50/Pk | 1213411 | Disc | 132mm | 50/Pk | 1213412 | Disc | 137mm | 50/Pk | 1213422 | Sheet | 102x133mm | 10/Pk | 1213416 | Sheet | 150x150mm | 5/Pk | 1213419 | Sheet | 200x200mm | 5/Pk | 1213442 | Sheet | 150x3000mm | 1/Pk | 1213441 | Sheet | 200x3000mm | 1/Pk | 1213405 | Roll | 300x3000mm | 1/Pk |
|----------------------------------|---|-------------|-----------|------------|-----------|---------|------|------|-------|---------|------|------|-------|---------|------|-------|-------|---------|------|-------|-------|---------|-------|-----------|-------|---------|-------|-----------|------|---------|-------|-----------|------|---------|-------|------------|------|---------|-------|------------|------|---------|------|------------|------|
| Part Number | Geometry | Dimensions | Packaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213409 | Disc | 82mm | 50/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213410 | Disc | 85mm | 50/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213411 | Disc | 132mm | 50/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213412 | Disc | 137mm | 50/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213422 | Sheet | 102x133mm | 10/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213416 | Sheet | 150x150mm | 5/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213419 | Sheet | 200x200mm | 5/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213442 | Sheet | 150x3000mm | 1/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213441 | Sheet | 200x3000mm | 1/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1213405 | Roll | 300x3000mm | 1/Pk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MANUFACTURE NAME | <p>GVS North America, Inc. 63 Community Drive Sanford, ME 04073 Phone: +1.866.736.1250 Email: CustomerCareGVSLS@gvs.com Website: www.gvs.com</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTENDED USE/ APPLICATION | <p>Nylon transfer membrane is naturally hydrophilic and optimized for high, reproducible binding of nucleic acids.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATERIALS | <p>Membrane: <i>Neutral</i> Nylon Membrane</p> <p>Regulatory Documentation Required:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Biocompatibility according ISO 10993-1 <input type="checkbox"/> IMDS <input type="checkbox"/> Rohs, directive 2002/95/CE <input checked="" type="checkbox"/> BSE/TSE, directive 2003/32/CE <input type="checkbox"/> DEHP plasticizer and latex free <input type="checkbox"/> Aging <input checked="" type="checkbox"/> Reach 1907/2006/CE (hazardous substances regulation) <input type="checkbox"/> Dir. 67/548/CE and Reg. 1272/2008/CE (medical sector dangerous substances) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



PRODUCT SPECIFICATION

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| | <input checked="" type="checkbox"/> Conflict minerals <input type="checkbox"/> USP Class VI | | | | | | | | | | | | |
|--------------------------------|--|-------------------------|------------------|------------------|-------------|--|-------------------------|-------|--------------------------------|--------------|------|---|--------------------|
| PRODUCT CHARACTERISTICS | <p>Appearance/Visual:</p> <ul style="list-style-type: none"> Supported: has added strength and durability preventing distortion or contamination in multiple reprobings High binding capacity. 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 | | | | | | | | | | | | |
| PRODUCT SHELF LIFE | <p>5 years in normal storage conditions: Store the product at room temperature away from chemical vapors, in a dry place, and free of dust.</p> | | | | | | | | | | | | |
| STERILIZATION | <p>This is a non-sterile product, compatible with these sterilization techniques*:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> EtO <input checked="" type="checkbox"/> Gamma (25 – 40 kGy) <input checked="" type="checkbox"/> Autoclave (121°C) <p><i>*user has the responsibility to validate their process</i></p> | | | | | | | | | | | | |
| PACKAGING AND LABELING | <ul style="list-style-type: none"> Primary packaging: <table border="1" data-bbox="384 1211 1500 1444"> <thead> <tr> <th>Product</th> <th>Interior package</th> <th>Exterior package</th> </tr> </thead> <tbody> <tr> <td>85 mm Discs</td> <td>Discs separated by blue paper in a thermoformed tray</td> <td>Clear/white plastic box</td> </tr> <tr> <td>Sheet</td> <td>Sheets separated by blue paper</td> <td>White mailer</td> </tr> <tr> <td>Roll</td> <td>Roll on core & surrounded by blue paper</td> <td>Roll placed in box</td> </tr> </tbody> </table> Each configuration will be labeled with: <ul style="list-style-type: none"> Quantity Product item code and description Manufacturing date Lot number Storage conditions An example of a label is below | Product | Interior package | Exterior package | 85 mm Discs | Discs separated by blue paper in a thermoformed tray | Clear/white plastic box | Sheet | Sheets separated by blue paper | White mailer | Roll | Roll on core & surrounded by blue paper | Roll placed in box |
| Product | Interior package | Exterior package | | | | | | | | | | | |
| 85 mm Discs | Discs separated by blue paper in a thermoformed tray | Clear/white plastic box | | | | | | | | | | | |
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|--|---|
| |  <p>GVS North America Sanford, ME 04073 - USA www.gvs.com +1 866-736-1250</p>  |
| | <p>Neutral Nylon</p> <p>Neutral Nylon Transfer Membrane disk diam. 82 mm, 0.22 µm</p> <p>REF 1213409 LOT SAMPLE QTY 100 EA Jan/2018</p>  <p>s9999999 MADE IN USA Rev. 0</p> |

CERTIFICATE OF COMPLIANCE A conformity declaration will be sent to the customer for each shipment with lot number and date of manufacture. The Quality management system is in compliance with ISO 9001.

VISUAL REQUIREMENTS *Visual acceptance requirements apply when inspected under below conditions:*
Magnification: None
Light type: Ambient

| Acceptance Requirement | | Sampling Plan |
|------------------------|------|-----------------|
| Creases/Folds | None | 100% Inspection |
| Cracks | None | |
| Pin Holes | None | |
| Wrinkles | None | |
| Tension Lines | None | |

| Acceptance Requirement | | | Standard Test Method |
|------------------------|-----------------|--|----------------------|
| 1 | Thickness | 140-190 µm | N/A |
| 2 | Water Flow Rate | Min 5.7 ml/min/cm ² at 10 psi | ASTM F316-03 (2011) |
| 3 | Bubble Point | 40-68 psi | ASTM F316-03 (2011) |


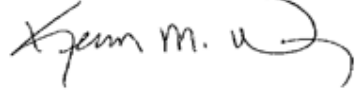
This material specification describes the properties of product above indicated.
This document contains general requirements, material description, drawing references, defect specification, and biological material requirements.



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REVISIONS AND APPROVALS:

| DATE | REV | REASON FOR CHANGE | ISSUED AND CONTROLLED BY: (name /function and signature) | APPROVED BY: (name /function and signature) |
|----------|-----|-------------------|---|--|
| 11/17/19 | 0 | Initial Release | Debra English Manager Biochemistry Applications  | Kevin Wrigley/Director of Quality  |

CUSTOMER APPROVAL:

We accept this material specification as a part of the agreed terms of delivery.

Company name _____

Approved by: _____
 (Name, Function) (Signature)

Date _____
 (Company stamp)

Please send back this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.