Transcendia
A LEADER IN CUSTOM ENGINEERED MATERIALS

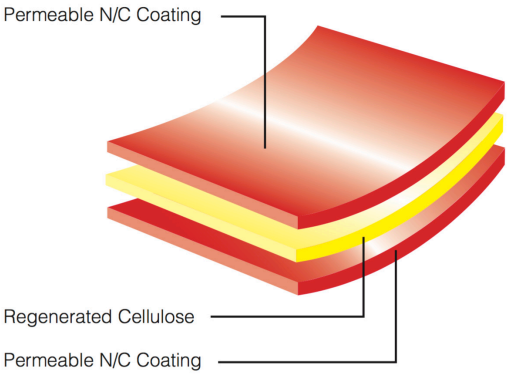
ISO 9001 Certified Company
PERRY JOHNSON REGISTRARS, INC.

# TRANSCELLO® LMS

## FEATURES – SEMI-PERMEABLE FILM

Regenerated cellulose film (RCF), coated on both sides with nitrocellulose.

- Heat-sealable on both sides, low heat-seal threshold and wide sealing range
- Permeable to water vapor, high barrier to gases and aromas
- Resistant to oils and greases
- Both sides of the film are equally receptive to inks, adhesives and tear-tapes
- Excellent gloss and transparency
- Based on renewable wood pulp
- Excellent dead-fold characteristics




## APPLICATIONS

360/500LMS are particularly suitable for the packaging of products requiring protection from mold or bacterial growth which can be caused by moisture build-up in the pack. They have been designed to help regulate the humidity levels through their high permeability to moisture. Also recommended for the packaging of products with low sugar content and containing fillings, eg. sponge cakes.

## TECHNICAL PROPERTIES (TYPICAL VALUES)

| PROPERTY | | TEST BASIS | TEST CONDITIONS | UNITS | | LMS/LST TYPE FILMS | |
|---|---|---|---|---|---|---|---|
| | | | | | | 360LMS 195LST | 500LMS 140LST |
| THICKNESS | | Transcendia test | - | mil | | 0.99 | 1.37 |
| YIELD | | Transcendia test | - | $in^2/lb$ | | 19500 | 14100 |
| PERMEABILITY TO: | WATER VAPOR | ASTM E96 | 100°F 90% RH | $g/100in^2.24$ hrs | | 70 | |
| | OXYGEN | ASTM F 1927 | 73°F 50% RH | $cc/100in^2.24$ hrs | | 0.32 | |
| OPTICAL: | GLOSS | ASTM D 2457 | 45° | units | | 85 | |
| | HAZE (WIDE ANGLE) | ASTM D 1003 | 2.5° | % | | 4 | |
| COEFFICIENT OF FRICTION (FILM TO FILM) | | ASTM D 1894 | Static | - | | 0.31 | |
| | | | Dynamic | | | 0.26 | |
| TENSILE STRENGTH | | ASTM D 882 | - | kpsi | MD | 17 | |
| | | | | | TD | 9 | |
| ELONGATION AT BREAK | | ASTM D 882 | - | % | MD | 22 | |
| | | | | | TD | 70 | |
| ELASTICITY MODULUS (1% SECANT) | | ASTM D 882 | - | kpsi | MD | >290 | |
| | | | | | TD | >145 | |
| SEALING RANGE | | Transcendia test | 0.5 secs; 10 psi | °F | | 185-320 | |
| SEAL STRENGTH | | Transcendia test | 275°F; 0.5 secs; 10 psi | g(f)/1½in | | 200 | |

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## FOOD CONTACT

TRANSCELLO® LMS is formulated to comply with US legislation for many room temperature food contact applications. Customers intending to use the film in a food contact application must request the Declaration of Compliance which gives full details. For information on other countries please contact your Transcendia Sales Office.

## HEALTH AND SAFETY GUIDELINES

For Health and Safety information, please refer to literature reference A190.

## FILM STORAGE

To maintain the high quality of this product during storage it is recommended that TRANSCELLO® LMS should be stored in its original wrapping away from any source of local heating or direct sunlight.

Recommended conditions of storage are:
Temperature: 60-75°F
Relative Humidity: 35-55%

TRANSCELLO® LMS is suitable for use for 6 months from the date of delivery and stocks should be used in rotation. Films should be allowed to reach operating room temperatures for 24 hours before use.

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