

LOTRYL® resins are copolymers of Ethylene & Acrylate. Due to the high polarity of acrylates, water molecules can permeate through monolithic (=solid/non perforated) **LOTRYL**® films. High processability of **LOTRYL**® EMA makes it suitable for high speed extrusion coating.



PARE-VAPOR

MVTR requirement 1-4 us perm (23°C; 50% HR)

SKFP SOLUTIONS

- LOTRYL**® 18MA02
- LOTRYL**® 20MA08 diluted in PP
- LOTRYL**® 17BA07T

TECHNOLOGY

Extrusion coating/lamination
Blown extrusion



HOUSEWRAP

MVTR requirement 5-15 us perm (23°C; 50% HR)

SKFP SOLUTIONS

- LOTRYL**® 20MA08
- LOTRYL**® 28MA07
- LOTRYL**® 28MA07 + 40MA05T

TECHNOLOGY

Extrusion coating/lamination



ROOFING UNDERLAYMENT

MVTR requirement 16-25 us perm (23°C; 50% HR)

SKFP SOLUTIONS

- LOTRYL**® 28MA07 + 40MA05T
- LOTRYL**® 28MA07 + CoPET
- LOTRYL**® 28MA07 + PEBA

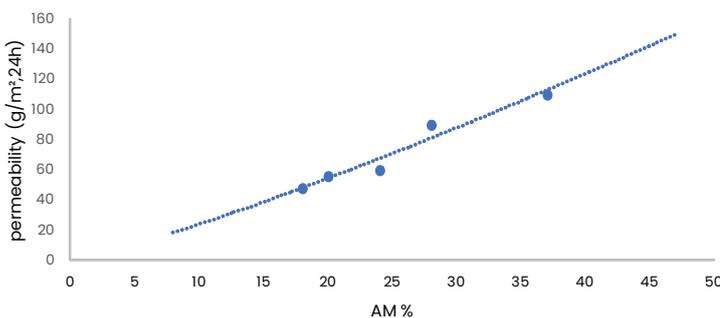
TECHNOLOGY

Extrusion lamination

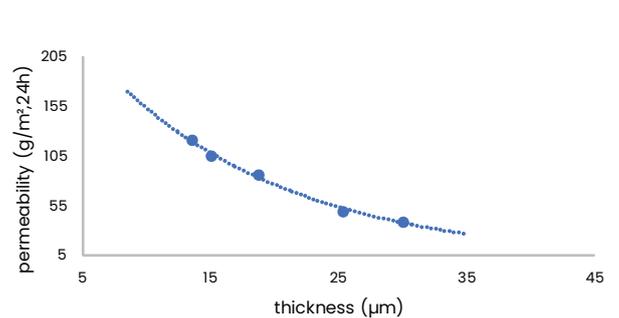
TUNABLE BREATHABILITY

- 🔗 With Acrylate content: higher acrylate content, higher permeability
- 🔗 Blend **LOTRYL**® with different MA content to fine tune permeability
- 🔗 Decrease the layer thickness to increase the permeability

MVTR ASTM96E method A (23°C 50%HR) at 25µm



MVTR of 28MA07 ASTM96E method A (23°C 50%HR)



	Methyl acrylate (wt%)	Melt flow index (g/10min)	Permeability (ASTM E96 A, US Perm)	Applications
18MA02	18	2	7	Housewrap
20MA08	20	8	8	Pare-vapor Low permeation
24MA02	24	2	9	Pare-vapor Housewrap
28MA07	28	7	13	Roof underlayment Housewrap
40MA05T	40	5	15	Roof underlayment High permeation



Multilayer laminate, including a reflective foil, used to reflect thermal radiations and reduce heat transfer.

SKFP SOLUTIONS

LOTADER® 4210 or 3430 concentrates
LOTADER® 4513T or 4503 ready to use



Multilayer laminates deposited onto a rigid foamed board. Used for homes and building insulation.

SKFP SOLUTIONS

LOTADER® 4513T or 4503

BENEFITS OF LOTADER®

- ▶ Non-corrosive for equipment (does not contain acid functions)
- ▶ Shorter transition in production since fully compatible with LDPE
- ▶ No extensive purging needed → lower downtime, better productivity
- ▶ Power consumption similar to LDPE → no additional production costs
- ▶ Better chemical resistance to residual isocyanate coming from foam

BENEFITS OF CONCENTRATE

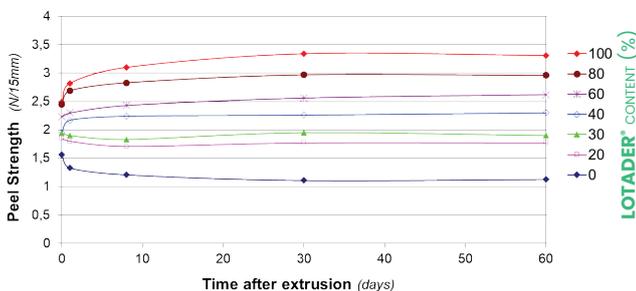
Cost manageable by LDPE blending

BENEFITS OF READY TO USE

High bonding
No primer
Versatility to many inks

Effect of Lotader content in blends Lotader 3210 / LDPE (MFI 4)

Processing at 330°C - Drawing rate $\dot{\epsilon}$ / $\dot{\epsilon}$ = 10 s⁻¹
Alu / Lotader 3210 + LDPE / LDPE (37/10/50/50µm)



	Reactive Group MAH (%)	Acrylate content (wt%)	Melt flow index (g/10 min)	Melting Point (°C)
3210	3.1	BA (6%)	5	107
4210	3.6	BA (6.5%)	10	105
4513T	0.3	MA (24%)	8	96
3430	3.1	MA (15%)	7	84

Disclaimer : All the information in this document is provided to the best of our knowledge. However, it does not constitute a commitment or guarantee regarding its use in any specific application. Regulatory information: consult your local representative. Please consult SK Functional Polymer disclaimer regarding the use of SKFP products on www.sk-fp.com

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