

TECHNICAL DATA SHEET

MelOx-NGen



DESCRIPTION

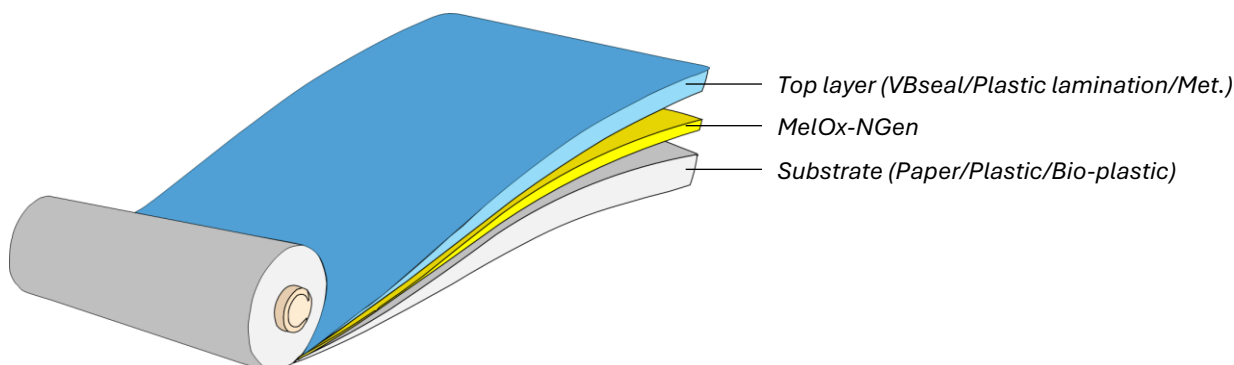
MelOx-NGen provides high oxygen barrier performance to eco-friendly packaging products based on paper, paperboard, plastics, or biopolymers. This product offers excellent oxygen and oil & grease barrier performance in both typical and tropical conditions.

PROPERTIES

PROPERTIES	VALUE
Product form	Water suspension
Solid content (wt%)	20 ± 2
Preservative	Included
Antifoam agent	Included
pH	5-8
Viscosity (cP, Brookfield, S63, 100 rpm, RT)	400 ± 200

BARRIER PROPERTIES FOR COATED SUBSTRATE

Conditions/Coated substrate	Paper	BOPP	PE	Test method
OTR @ 23 °C, 0% RH (cc/m ² ·day·atm)	< 0.5	< 1	< 1	ASTM D3985 and F1927-50
OTR @ 23 °C, 50% RH (cc/m ² ·day·atm)	< 0.5	< 1	< 1	ASTM D3985 and F1927-50
OTR @ 23 °C, 70% RH (cc/m ² ·day·atm)	< 5	---	---	ASTM D3985 and F1927-50
Oil & grease barrier (KIT rating)	12	---	---	TAPPI T 559 pm-96
	✓	---	---	PTS-RH 021:2012
Recyclability on paper	✓	---	---	CEPI recyclability laboratory test method Version 2



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HOW TO USE

- Ready for use as is. It is highly recommended that the suspension not be modified.
- Do not heat the suspension to above 40 °C. When drying, follow the recommended drying temperature (see User Guide).
- Mix the suspension well before applying, to assure homogeneity and fluidity. An IBC mixer is recommended for IBCs.
- MelOx-NGen should be applied on the substrate and a top layer should be applied on top of it, as illustrated in the figure above. For paper, use VBseal, and for plastic, lamination or metallization.
- When applying on paper, it is recommended to apply a total dry coating weight of ~5 g/m². On plastic substrates, one thin layer (< 2 µm) will suffice (see User Guide for detailed utilization instructions).
- The most suitable coating technologies are rod-coater, gravure, slot-die, flexo, and curtain coating.
- Reusing or storing the used material from the machine is not recommended.

STORAGE & SHELF LIFE

- Exhibits good shelf-life stability of at least 9 months in suspension form (in an unopened container, when stored correctly), and at least 1 year as a dry coated layer.
- Delivered in drums or IBC's.
- The product should be stored under cool but frost-free conditions (between 5 °C and 25 °C), away from direct sunlight.
- Storage at low temperature may increase the product's viscosity and cause reversible gelation. Acclimatization for 1-2 days at 20-25 °C will decrease the viscosity to its original state.