

TECHNICAL DATA SHEET

MelOx-NGen for plastic



DESCRIPTION

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

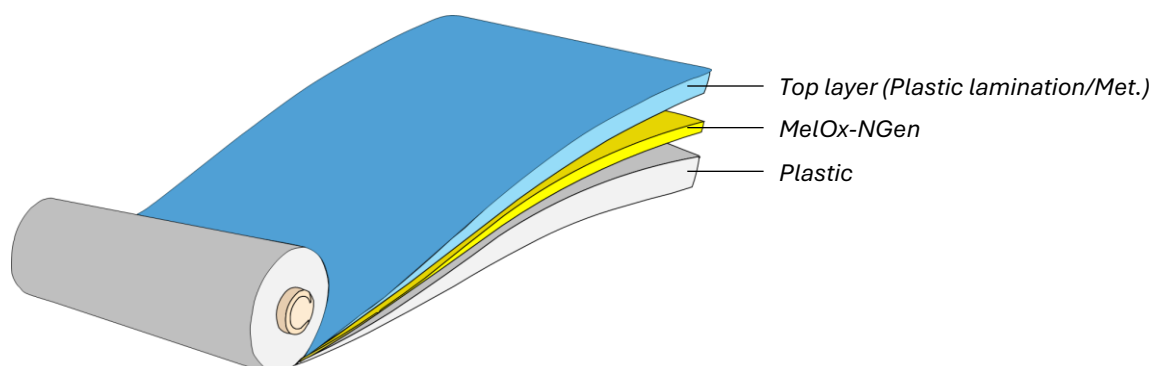
PROPERTIES

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	BOPP	PE	PET	Test method
OTR @ 23 °C, 0% RH (cc/m ² ·day·atm)	< 1	< 1	< 0.5	ASTM D3985 and F1927-50
OTR @ 23 °C, 50% RH (cc/m ² ·day·atm)	< 1	< 1	< 0.5	ASTM D3985 and F1927-50



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HOW TO USE

- Ready for use as is. It is highly recommended not to modify the suspension.
- Do not heat the suspension to above 40 °C. When drying, follow recommended drying temperature (see User Guide).
- Mix the suspension well before applying, to assure homogeneity and fluidity. For IBCs, it is recommended to use an IBC mixer.
- Following application of MelOx-NGen, a plastic laminate or a metalized layer should be applied, as illustrated in the figure.
- Two utilization options (please refer to the User Guide):
 1. Coating a primer layer, followed by coating MelOx-NGen. Recommended primer: PEI-based, e.g., Michelman Michem Flex P2300.
 2. Use MelOx-NGen in combination with an adhesion promoter (one coating layer). Recommended adhesion promoter: BASF Loxanol MI 6730.
- The most suitable coating technologies are rod-coater, gravure, slot-die, flexo and curtain coating.
- It is not recommended to reuse or store the used material from the machine.

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), out of direct sunlight.
- Storage at low temperature may increase the product's viscosity and cause reversible gelation. Acclimatization of the product for 1-2 days at 20-25 °C will decrease the viscosity to its original state.