



OREVAC®

ADHESIVE RESINS FOR PACKAGING APPLICATIONS



Let's progress together



GRAFTED OREVAC®

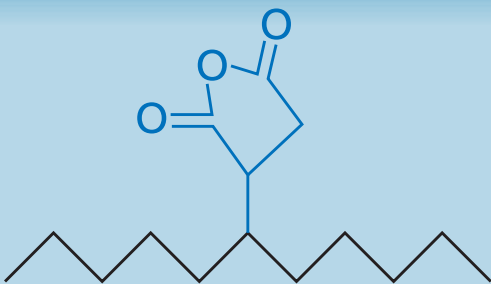
Adhesive Resins for packaging applications

GRAFTED OREVAC® adhesive resins are functionalised polyolefins designed for coextrusion and lamination of multilayer barrier structures, providing outstanding adhesion between polyolefins and barrier materials.

Food contact approvals

- Orevac® adhesive resins designed for multilayer structures in food packaging comply with EU regulations (for direct food contact) and with FDA regulations (indirect food contact). For more details, please contact the Area Sales Managers.

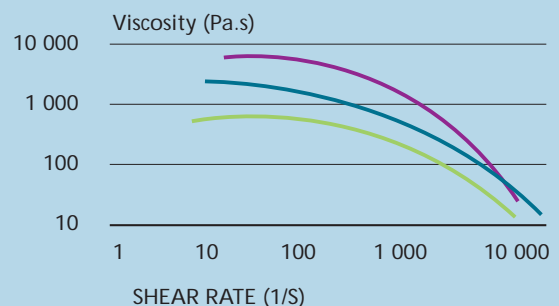
Chemical nature



- Orevac® adhesive resins are anhydride grafted polyolefins based on PE, EVA, EMA or PP. Anhydride provides polarity and reactivity which gives high adhesion levels on various substrates such as: polyamides, EVOH, PET, aluminium,

Processing

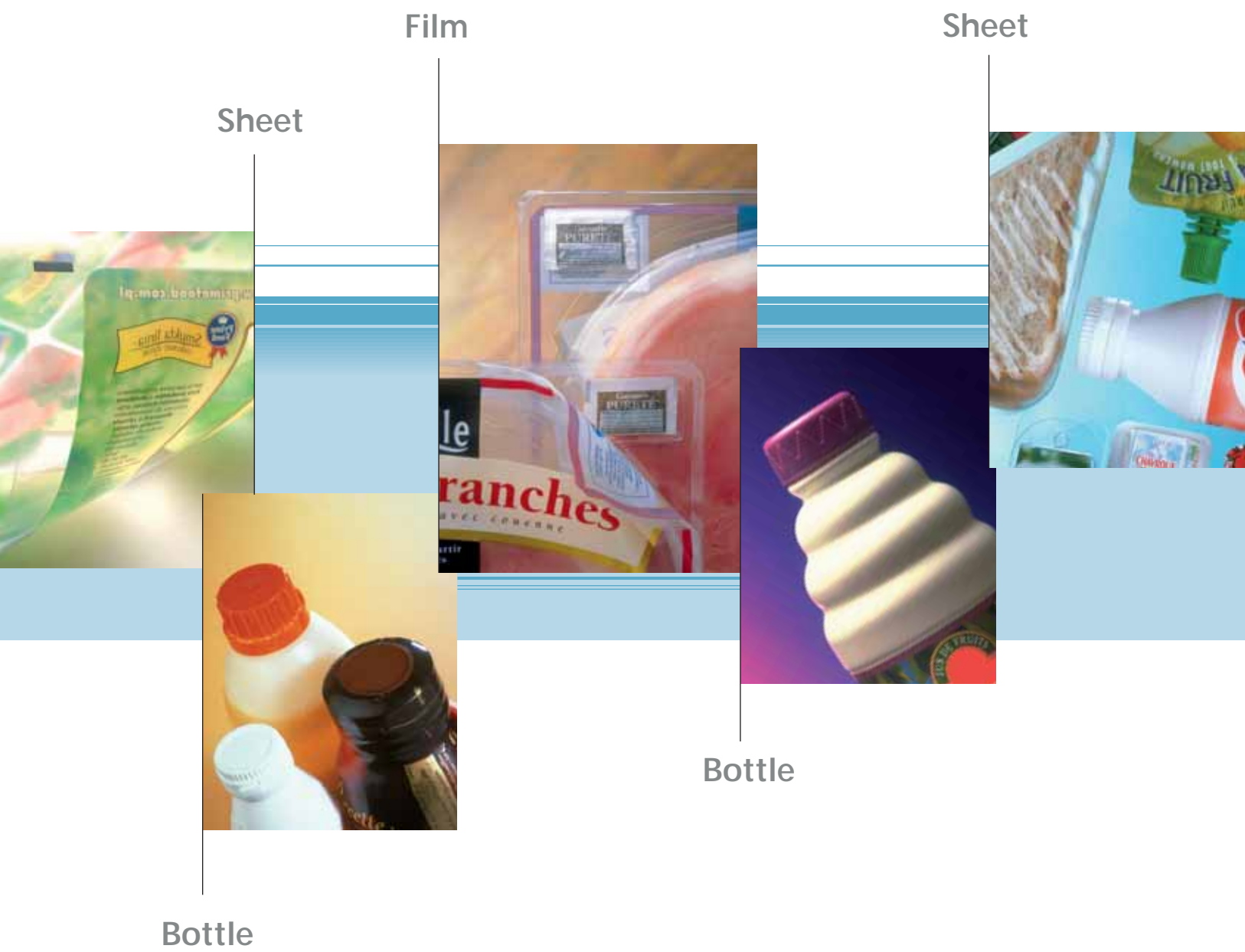
Rheology of Orevac®



- All Grafted Orevac® adhesive resins are suitable for use on coextrusion equipment designed for polyolefin processing.
- The rheology of each grade is adapted to the processing technology: blown film, cast film, sheet, blow moulding, extrusion coating, ...

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Applications



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Rigid packaging

Sheet barrier structures

- These structures are suitable for thermoformed packaging of meat, fresh salad, snacks, modified atmosphere packaging,...
- Commonly used barrier materials for these applications are EVOH and PET.
- Thermoformability is an important criterion for the processing of the structure.
- Specific Orevac® adhesive resins have been developed to bond PS, PP, PET or EVOH efficiently to polyolefins.

PE
OREVAC®
EVOH
OREVAC®
PS



PE
OREVAC®
EVOH
OREVAC®
PET



PP
OREVAC®
EVOH
OREVAC®
PP

Blow moulding coextrusion

- Blow moulding coextrusion process allows bottles with different structures to be produced for fruit juice, soup, sauces or chemical products.
- The required performance for these structures could be high barrier properties (oxygen, gas, aroma,...), chemical resistance or specific mechanical properties...
- The Orevac® adhesive resins, specific for such applications, have suitable rheology for the blow moulding process, providing outstanding adhesion to PA or EVOH barrier materials.

PP
REGRIND
OREVAC®
EVOH
OREVAC®
PP



HDPE
REGRIND
OREVAC®
PA



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Flexible packaging

Medium oxygen barrier structures

- These multilayer structures with a standard shelf life are used for the packaging of meat, fish, cheese, ...
- Commonly used barrier materials for this type of packaging are polyamides.



PA
OREVAC®
PE - EVA - EBA

- Orevac® adhesive resins are designed to reach high adhesion between PA and polyolefins.
- For these applications, the Orevac® adhesive resins have been optimised for best performance at the lowest cost.



PE
OREVAC®
PA
OREVAC®
PE

High oxygen barrier structures

- These EVOH based multilayer structures are generally used for lamination, lidding and vacuum packaging.



PP
OREVAC®
EVOH
OREVAC®
PP

- The usual barrier material for these applications is EVOH, which provides a long shelf life.

- As a result of Arkema long experience in the field of grafting technology and adhesion science, specific Orevac® adhesive resins, with outstanding properties for EVOH based structures have been developed.



PE
OREVAC®
EVOH
OREVAC®
PE

Aluminium based structures

- These structures are currently used for lidding of retortable packaging. Specific PP based Orevac® grades are available with suitable rheology for extrusion coating.



ALUMINIUM
OREVAC®
PP

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