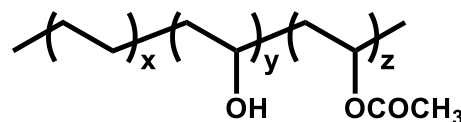


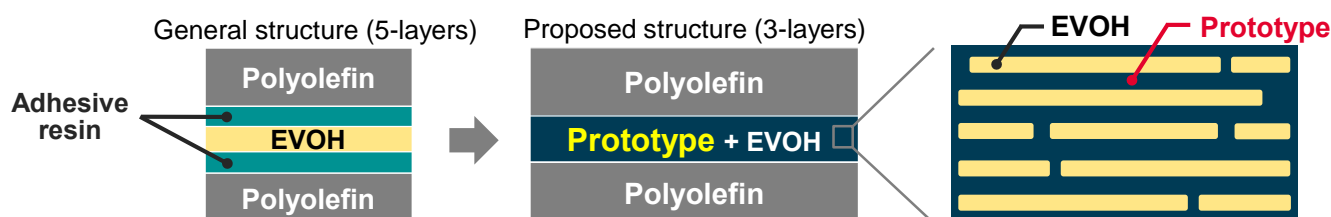
# EVOH adhesive modifier with recyclability

Prototype of Melthene®-H is a polymer with ethylene, vinyl alcohol, and vinyl acetate units. It is a non-reactive compatibilizer and modifier with excellent compatibility with polar polymers (EVOH, PA, etc.).



## Characteristics of prototype

- ✓ The prototype can produce gas barrier packaging using 3-layers processing machine.
- ✓ This packaging with the prototype has excellent material recyclability.



## Recyclability

Prototype is an effective compatibilizer for PE and EVOH, and it has excellent material recyclability.

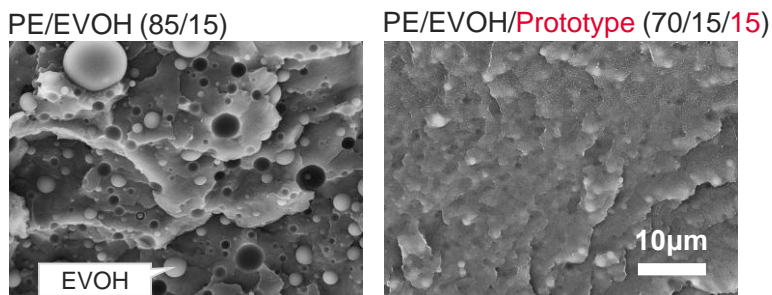


Fig. Dispersion structure of recycled sheet.

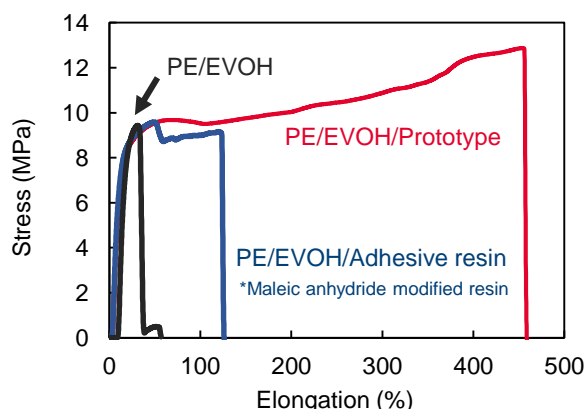


Fig. Stress-strain curve of recycled film.

## Typical performance

Prototype with 30-40% EVOH has an excellent balance of adhesive and gas barrier properties.

Table. Typical performance of three layer (50µm)

Middle layer		Adhesive strength N/15mm	Oxygen permeability cc/(m <sup>2</sup> ·24h·atm)
Prototype	EVOH		
70%	30%	12 ≤	11
60%	40%	10	5.4

\*The values shown are representative values, not standard values.  
Please contact us for more detailed information.

## Application

- **Processing**
  - Blown film
  - Cast film
  - Extrusion blow molding
- **Application**
  - Food packaging containers and films
  - General packaging (odor control, etc)
  - Agricultural and industrial packaging