

## KETJENFLEX® 8 in Vinyl Based Heatseal Laquers

Heatsealing with vinyl resins is a common way to seal bags for food or consumables. Since vinyl resins tend to be brittle when used solely, plasticizers are added to improve flexibility. When KETJENFLEX 8 is used as plasticizer a strong improvement in bond strength can be observed especially when compared to other plasticizers.

### Solution Preparation

The solution of the UMCH55 vinyl resin were made in MEK to the solutions plasticizer was added at a dosage level of 4%.

Product	%
UMCH-55	25
Methylethyl ketone	71
Plasticizer*	4
	100

### Plasticizer\* tested

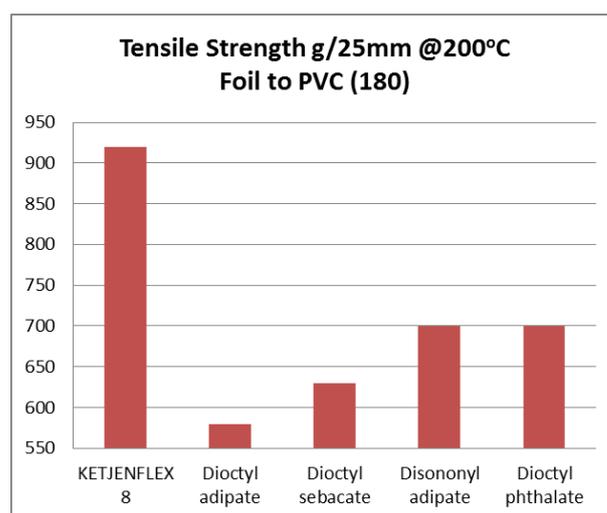
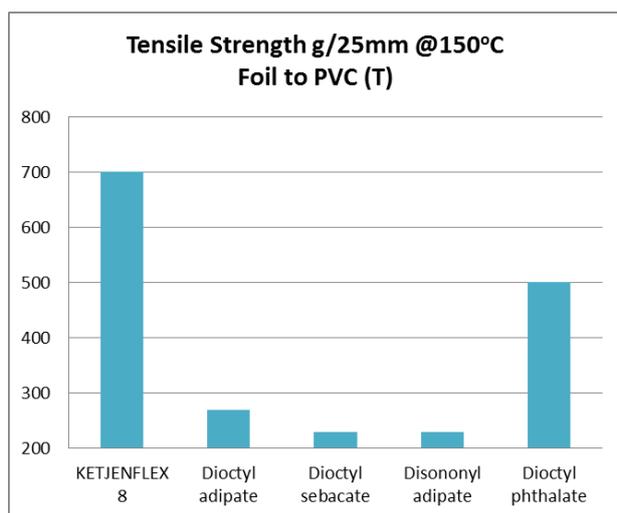
- KETJENFLEX 8
- Dioctyl adipate
- Dioctyl sebacate
- Disononyl adipate
- Dioctyl phthalate

### Evaluation

A 12 microns wet (3 microns dry) film of each solution was applied to neat aluminium foil and dried over a drum heater at 90 degrees C for 10 seconds. The coated foils were heat sealed to PVC at 150 and 200°C respectively. They were pressed at 4 bar during 1 sec dwell time.

### Results Tensile strength test

Highest tensile strength with KETJENFLEX 8 at 150 and 200°C.



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