

## STUDY: PLASTICIZERS IN SMP SEALANTS

Hallstar designs, synthesizes and produces ester plasticizers for the adhesives and sealants markets through our global innovation and production facilities. With our latest acquisition of LANXESS production and product lines in Greensboro, NC, we have further expanded our capabilities.

A study was conducted to identify performance advantages of Hallstar's plasticizers vs. aromatic plasticizers.

- Hallstar advantages:
- Elongation
  - Low Tg
  - Stable physicals after aging/weathering
  - Cure through depth
  - Viscosity reduction

The following plasticizers were evaluated:

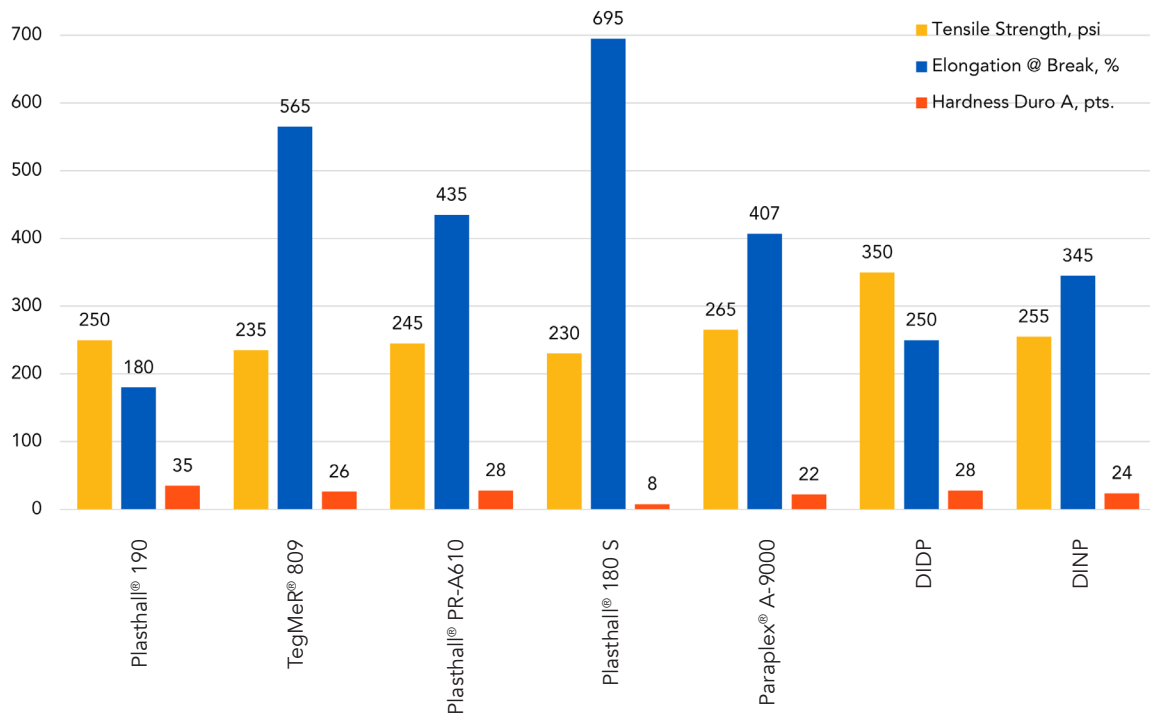
- Plasthall® 190
- TegMeR® 809
- Plasthall® 180 S
- Paraplex® A-9000
- Plasthall® PR-A610
- Diisononyl Phthalate (DINP)
- Diisodecyl Phthalate (DIDP)

Formulation	Loading (PHR)
Silane Modified Polyether	100
UV Stabilizers	2
Prec. CaCO <sub>3</sub>	160
Calcium Carbonate	54
Titanium Oxide	20
Plasticizer	90
VTMO - Dehydrate	3
DAMO – Adhesion Promoter	3
Catalyst	2



# Performance Data

## Performance Properties



## Glass Transition Temperatures, Tg

