

# HALLGREEN® 800 TM-B

HallGreen® 800 TM-B is a new ester chemistry based off trimellitic anhydride and compatible with a variety of thermoplastic and elastomer polymer systems including PVC and nitrile rubber. This product is designed to balance performance at both high and low temperature ranges, while introducing a high percentage of biocontent into a polymer.

As a monomeric molecule, HallGreen® 800 TM-B demonstrates excellent performance when durability is of highest importance. It also displays extremely low volatility at high temperatures, extraction resistance to polar fluids, and retention of tensile properties after accelerated aging.

## Polymer Systems

### Elastomers

- Nitrile rubber (NBR)
- Hydrogenated nitrile butadiene
- Chlorinated rubber (CSM)
- Acrylic elastomers (AEM)
- Polychloroprene (CR)
- Epichlorohydrin

### Thermoplastic Elastomers

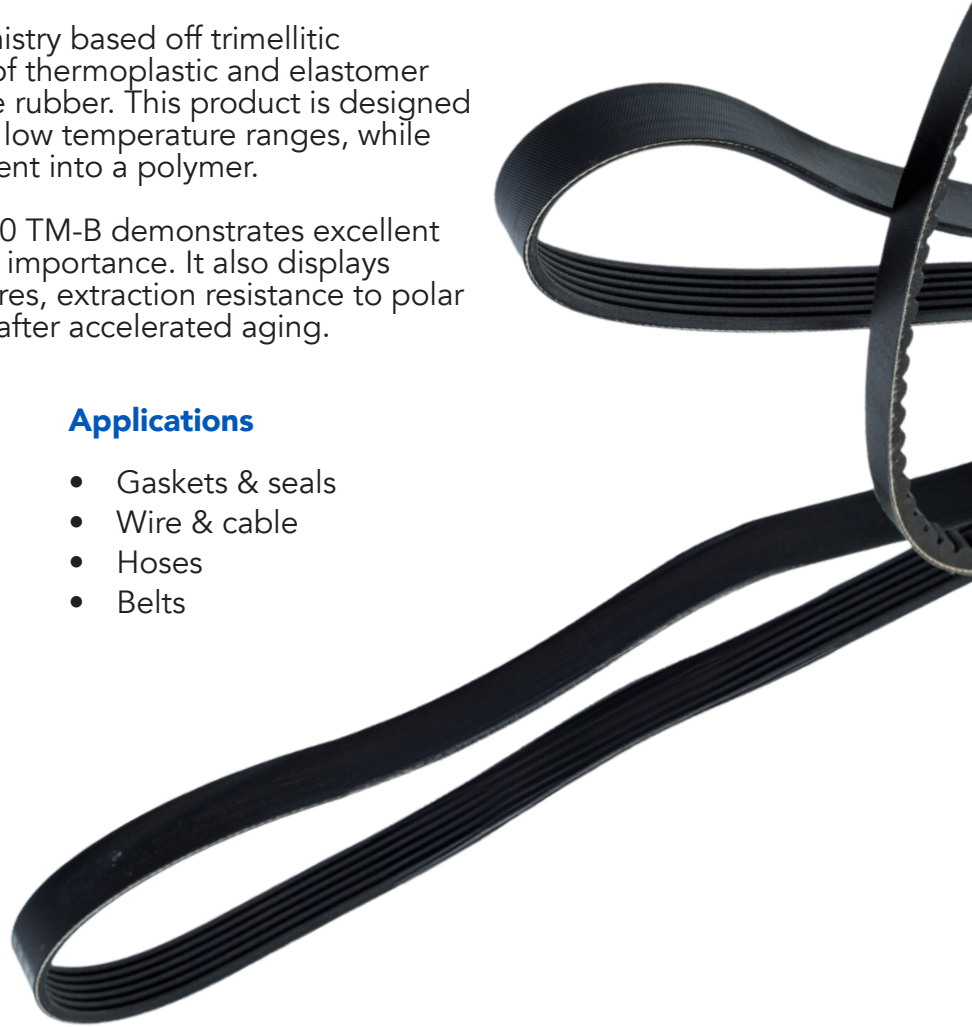
- Polyurethane (PU)

### Thermoplastics

- Vinyl (PVC)

## Applications

- Gaskets & seals
- Wire & cable
- Hoses
- Belts



## Plasticizer Comparison

	HallGreen® 800 TM-B	TOTM	8-10 TME
Biocontent, Wt%	71	0	0

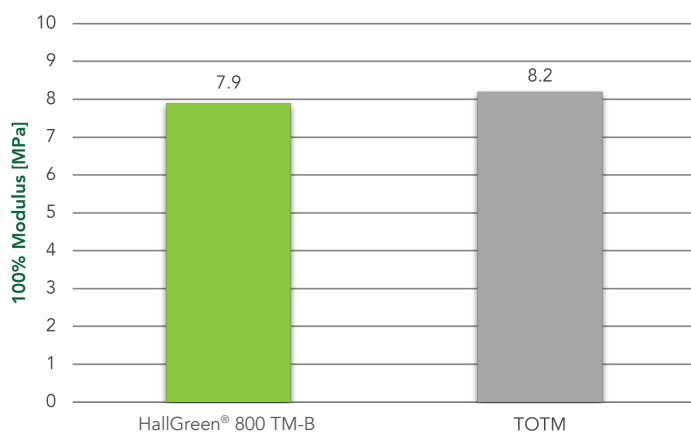
## HallGreen® 800 TM-B Properties

Physical Properties	Method	Units	Specification Range
Appearance	ASTM D-2090	–	Clear
Color	ASTM D-1209	APHA	0-250
Moisture	ASTM E-203	Wt%	0.00-0.10
Specific Gravity (25°C)	ASTM D-4052	–	0.95-1.00
Acid Value	AOCS CD 3D-63	mg KOH/g	0.0-1.00

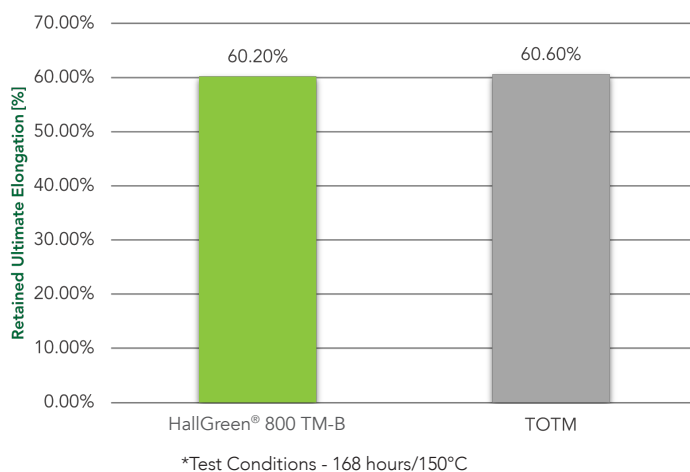
HallGreen® 800 TM-B provides a drop-in substitute for trioctyl trimellitate (TOTM) when evaluating for plasticizing efficiency, tensile strength, low-temperature flexibility, as well as the retention of those characteristics after heat aging. It is compatible in all the same elastomer polymer systems as Plasthall® TOTM.

The graphs below show the initial plasticizing efficiency and durability of HallGreen® 800 TM-B relative to (TOTM) in both acrylic rubber (AEM) and chlorosulfonated polyethylene (CSM).

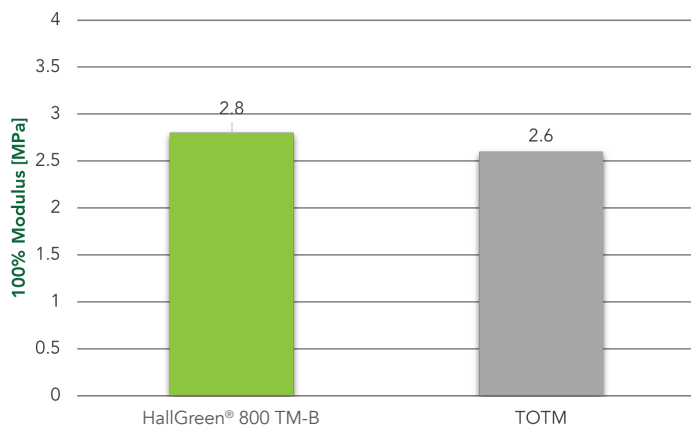
**HallGreen® 800 TM-B in Acrylic Elastomers**



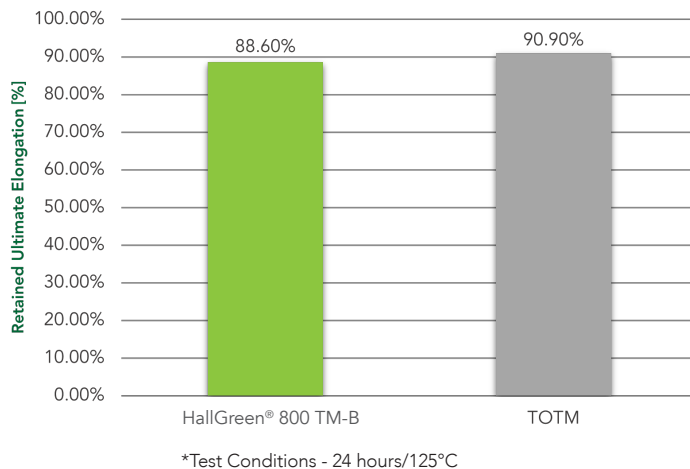
**Air Aging in Acrylic Elastomers (AEM)**



**HallGreen® 800 TM-B in Chlorosulphonated Polyethylene (CSM)**



**Air Aging in Chlorosulphonated Polyethylene (CSM)**



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