

# HALLGREEN® TRIMELLITATE RENEWABLE ESTERS FOR PVC

HallGreen® products are designed for formulators with sustainability goals with renewable content > 70%. Our renewable trimellitates offering are compatible with thermoplastics and elastomers including PVC and NBR rubber. These products are designed to match performance of synthetic trimellitate offerings, providing a balance performance at both low and high temperature.

Hallstar's expertise in polymer modification and plasticization, coupled with our application knowledge across a wide range of elastomeric products, is unique in the specialty chemical industry. Our ability to continually invent and formulate with esters to craft important functionality including phthalate replacement is based on years of specialized esterification experience.



## Applications

- Wires & cables
- Hoses
- Belts
- Gaskets & seals

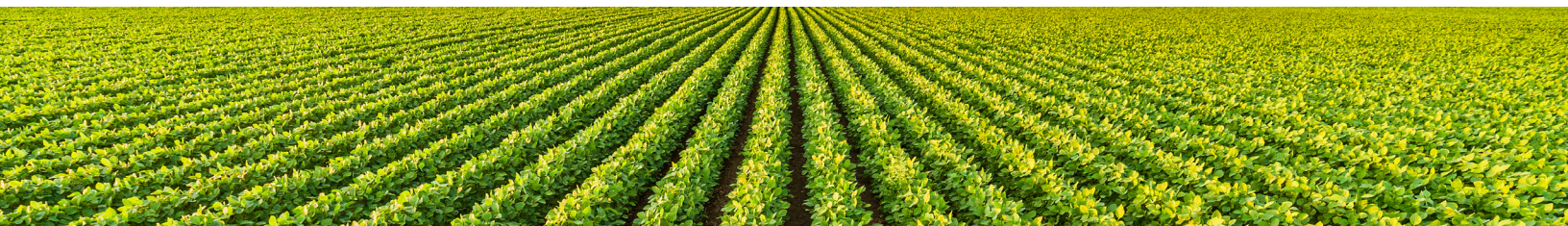
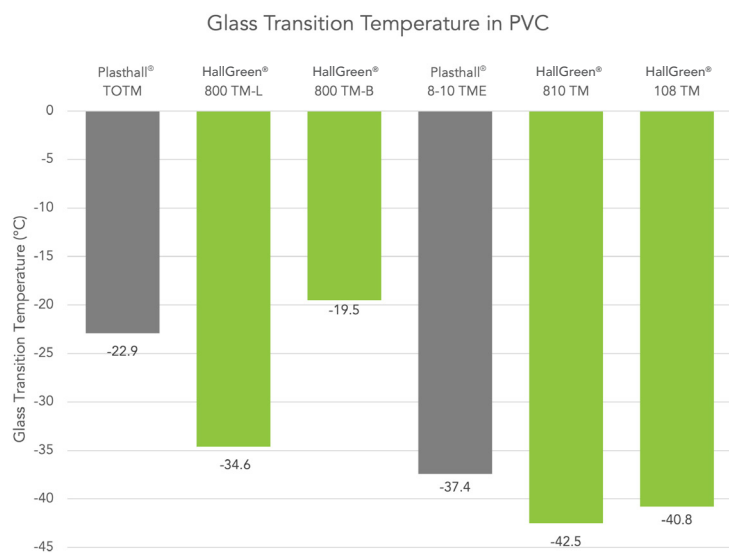
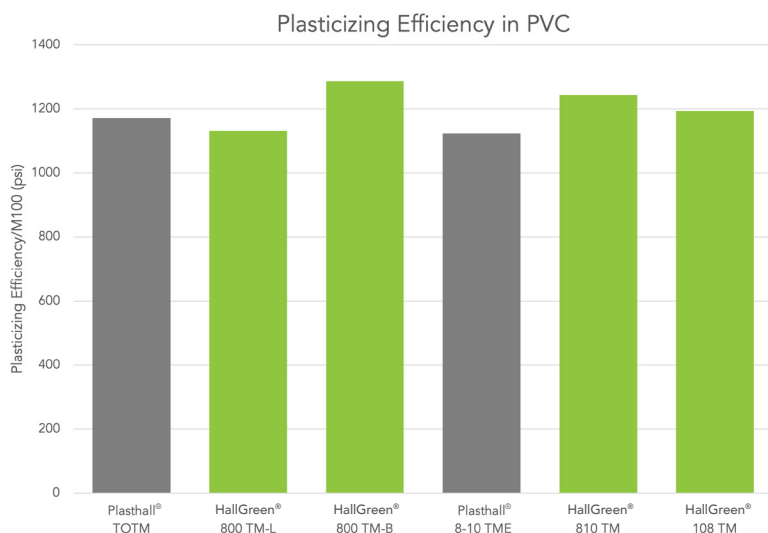
## Product Offering:

	TOTM Comparison			8-10 TME Comparison		
Product	Plasthall® TOTM	HallGreen® 800 TM-B	HallGreen® 800 TM-L	Plasthall® 8-10 TME	HallGreen® 810 TM	HallGreen® 108 TM
Renewable Content	Synthetic	71%	71%	Synthetic	74%	74%

## Performance Properties in PVC:

	TOTM Comparison			8-10 TME Comparison		
Product	Plasthall® TOTM	HallGreen® 800 TM-B	HallGreen® 800 TM-L	Plasthall® 8-10 TME	HallGreen® 810 TM	HallGreen® 108 TM
Stress (in psi)	1172	1287	1132	1123	1243	1194
Tensile	2359	2457	2393	2215	2470	2213
Tg (°C)	-22.9	-19.5	-34.6	-37.4	-42.5	-40.8
Weight change @ 121°C	-0.1	-0.4	-0.4	0	-0.5	-0.4

HallGreen® renewable trimellitate esters provide similar performance to their synthetic counterparts when evaluating for plasticizing efficiency, tensile strength, low temperature flexibility, as well as retention of those characters after heat aging. Our renewable esters are compatible in all the same polymer systems as Plasthall® TOTM and Plasthall® 8-10 TME.



**REQUEST A SAMPLE**

Contact your Hallstar account executive

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