

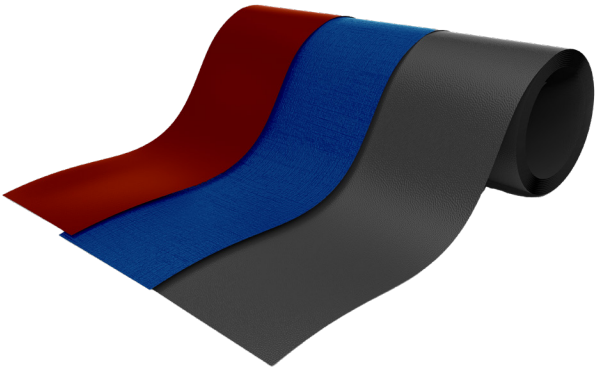
TRIMELLITATE ALTERNATIVES FOR RUBBER

Global Trimellitic Anhydride (TMA) Supply Shortage

In early 2024, the only North American producer of Trimellitic Anhydride (TMA) ceased operations permanently, exacerbating an already constrained global supply.

Hallstar’s Innovative Solution

To address this critical shortage, Hallstar has developed a high-performance offsets to standard TMA-derived products. Our innovative solutions provide supply security, price security, price stability and matching performance, allowing for strategic advantage for customers navigating the global supply disruption.



Plasthall® 318, 405 and 408 are performance replacements to trimellitate esters designed using alternative raw materials.

Elastomers:

- NBR
- CPE
- HNBR
- CSM
- ECO
- CR
- AEM

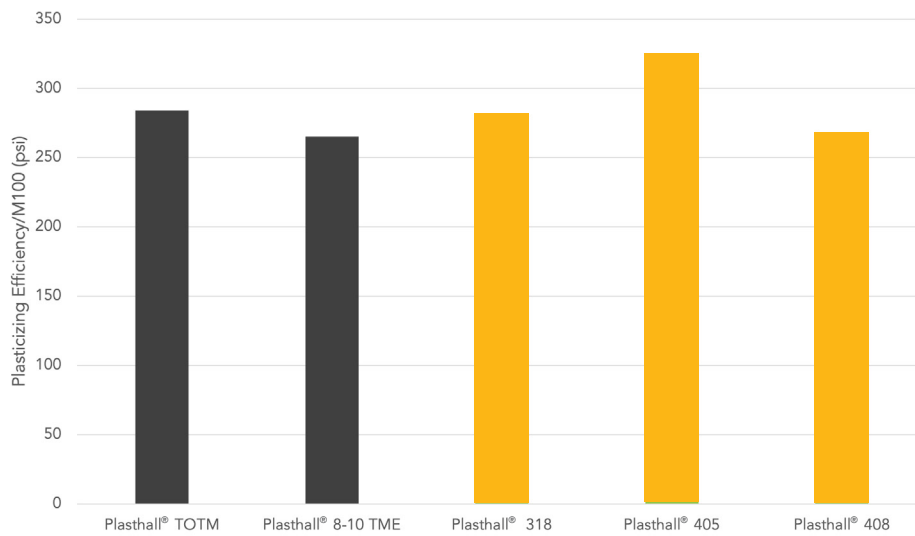
Product Offerings

	Standard Trimellitates		Trimellitate Alternatives		
Product	Plasthall® TOTM	Plasthall® 810-TME	Plasthall® 318	Plasthall® 405	Plasthall® 408

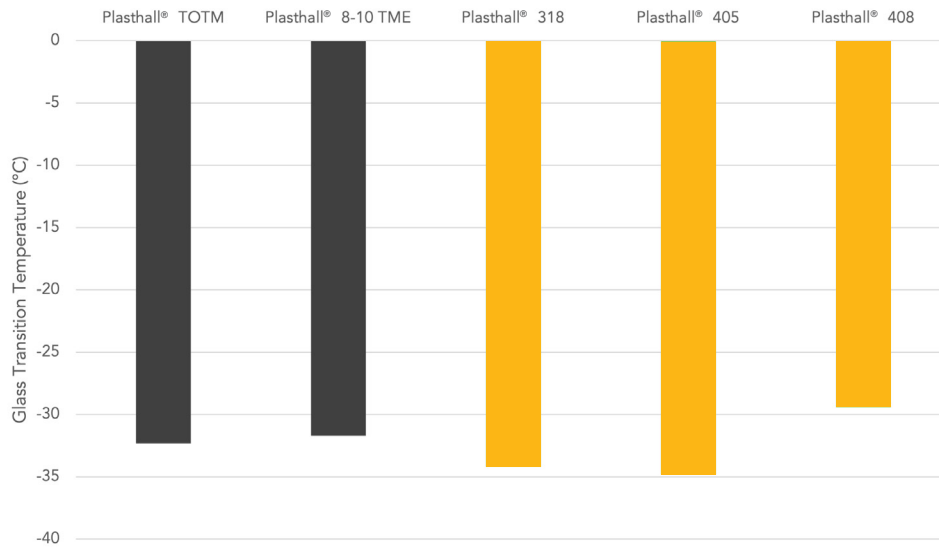
Performance Properties in NBR Rubber

	Standard Trimellitates		Trimellitate Alternatives		
	Plasthall® TOTM	Plasthall® 8-10 TME	Plasthall® 318	Plasthall® 405	Plasthall® 408
Stress (M100) (psi)	284	265	281	325	268
Tensile	2069	2097	1970	2110	2161
Tg by DSC (°C)	-32.3	-31.7	-34.2	-34.8	-29.4
Wt Change @ 125°C Oven Aging (%)	-0.6	-0.6	-1.9	-3.4	-1.1

TMA Alternative in NBR - Plasticizing Efficiency



TMA Alternatives (NBR) - Glass Transition Temperature



REQUEST A SAMPLE

Contact your Hallstar account executive

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