

INNOLEIC™ GPe 10

PRODUCT DESCRIPTION

Innoleic™ GPe 10 is a general-purpose sustainable plasticizer for S-PVC compounds and plastisols, manufactured under state-of-the-art vegetable oil chemical modification processes to result in a phthalate-free alternative primary plasticizer with similar or better performance when compared to other general-purpose plasticizers, without the typical compatibility issues of ESO-type plasticizers.

BENEFITS

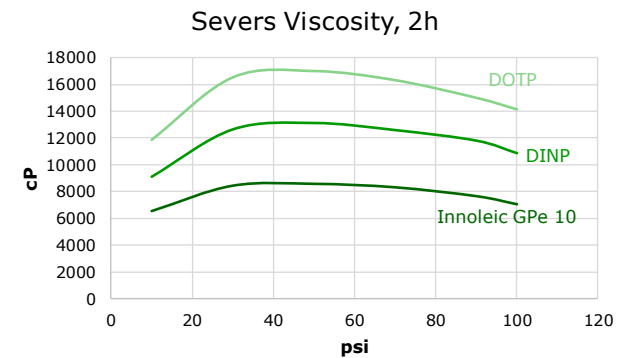
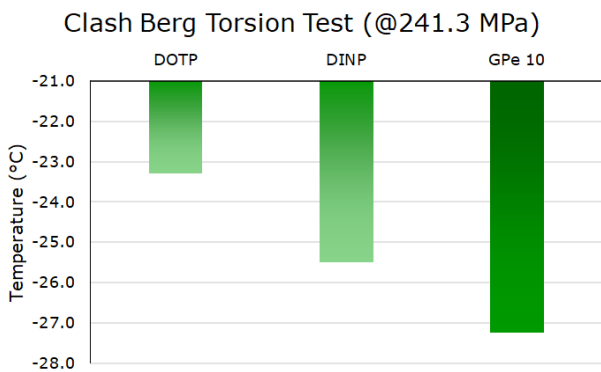
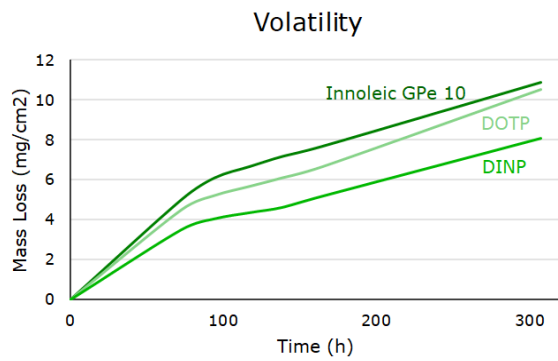
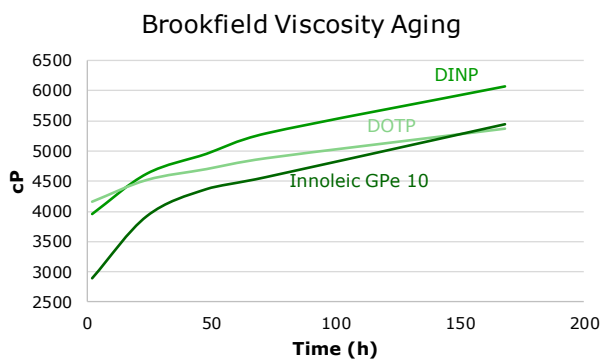
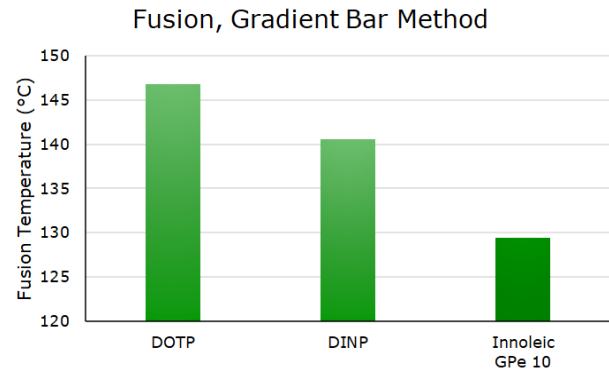
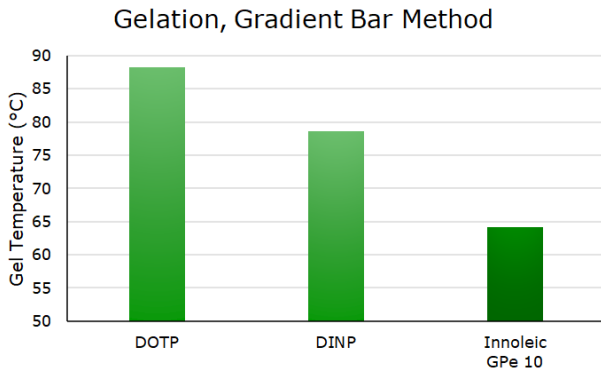
Reduced plastisol gelation and fusion temperatures when compared to other general-purpose plasticizers	<ul style="list-style-type: none">○ Increased throughput, reducing unit manufacturing costs○ Lower oven temperatures, reducing energy costs○ Wider array of heat-sensitive substrates and components
Improved low-temperature flexibility	<ul style="list-style-type: none">○ Lower concentration of low-temperature additives
Improved thermal stabilization due to its inherent Epoxy groups	<ul style="list-style-type: none">○ Allows the complete replacement of ESO as a co-stabilizer, simplifying the formulation and reducing raw material inventory and SKUs
Similar volatility and viscosity aging when compared to petroleum-based general-purpose plasticizers	<ul style="list-style-type: none">○ Similar service life of final goods○ Little need for formulation adjustments
Improved dry-up time for S-PVC compounds	<ul style="list-style-type: none">○ Reduced dry-blend cycle time
Reduced fusion temperatures when used as a replacement for petroleum-based general-purpose plasticizers	<ul style="list-style-type: none">○ Increased clarity and surface gloss of final products
Reduced carbon footprint	<ul style="list-style-type: none">○ Primary phthalate-free alternative, vegetable-based product providing a lower carbon footprint

PROPERTIES

Characteristic	Method	Specification	Typical Values
Color	PE 0006	Light yellow	Pass
Spec. Gravity (25°C), g/cm ³	PE 0005	0.930-0.960	0.939
Acidity, (1g KOH/g)	PE 0004	3.0 max.	0.5
Iodine Index, cg I ₂ /g	PE 0002	3.5 max.	1.5
Oxirane Index, weight%	PE 0001	5.0 min.	6.5

PERFORMANCE

Innoleic™ GPe 10 presents lower gel and fusion temperatures when compared to traditional general-purpose plasticizers while maintaining similar mass loss and viscosity aging.



Notes: Plastisols were formulated with 100 parts e-PVC resin (K=75), 60 parts plasticizer, 2 parts stabilizer (CaZn).
Oven aging @ 105 °C, 14 air exchanges/hour
Low-temperature flexibility formulations hardness adjusted to Shore A 70.

PACKAGING

Material can be acquired in bulk, 275 gal totes, or 55 gal drums.

SHELF LIFE

24 months when properly stored in accordance with good warehousing practices in tightly sealed containers to avoid contamination. To maintain workable plasticizer viscosities, the temperature should be maintained above 50°F (10 °C).