Innoleics Corp USA.
806 Verona Street, Suite 1
Kissimmee, Florida 34741 – USA
Tel: (646) 583-2882

Technical Data Sheet

INNOLEIC™ GPs 75

PRODUCT DESCRIPTION

Innoleic™ GPs 75 is a general-purpose sustainable plasticizer for S-PVC compounds, 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

Improved efficiency	○ Lower concentration of plasticizer to achieve the same hardness
Similar volatility and retention of mechanical properties when compared to petroleum-based general-purpose (GP) plasticizers	○ Similar service life of final goods ○ Little need for formulation adjustments
Reduced fusion temperature when compared to other GP plasticizers	○ Increased throughput ○ Lower oven temperatures, reducing energy costs ○ Higher flow index for extruded materials ○ Increased clarity and surface gloss of final products
Improved thermal stabilization due to its inherent Epoxy groups	○ Allows the complete replacement of ESO as a co-stabilizer, simplifying the formulation and reducing raw material inventory and SKUs ○ Allows improved internal recycling ○ Allows broader range of processing time and temperature for flexible PVC converters
Higher elongation and higher tensile strength when compared to GP plasticizers	○ Improved resilience ○ Improved abrasion and flex resistance
Improved dry-up time for S-PVC compounds	○ Reduced dry-blend cycle time
Reduced carbon footprint	○ Primary phthalate-free alternative, vegetable-based product providing a lower carbon footprint

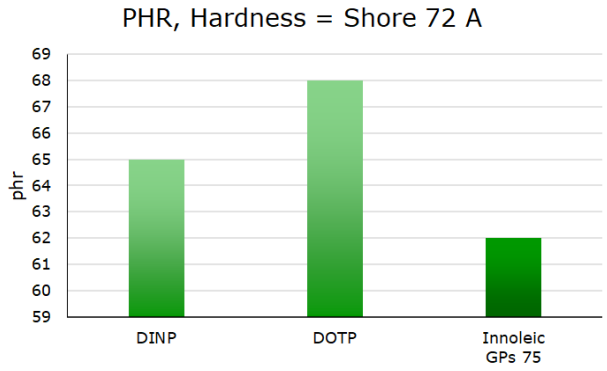
PROPERTIES

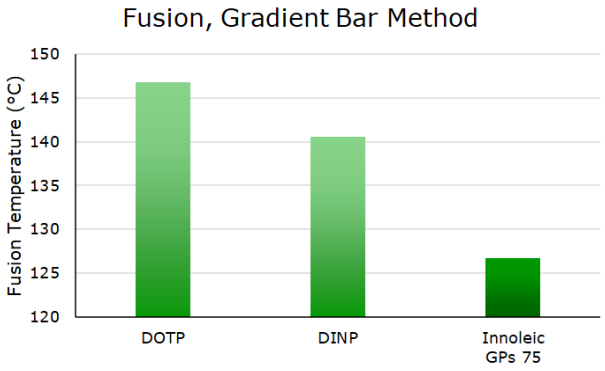
Characteristic	Method	Specification	Typical Values
Color	PE 0006	Light yellow	Pass
Spec. Gravity (25°C), g/cm^3	PE 0005	0.975 – 0.995	0.984
Acidity, (1g KOH/g)	PE 0004	3.0 max.	1.9
Iodine Index, cg I_2/g	PE 0002	3.0 max.	1.7
Oxirane Index, weight%	PE 0001	5.0 min.	6.2

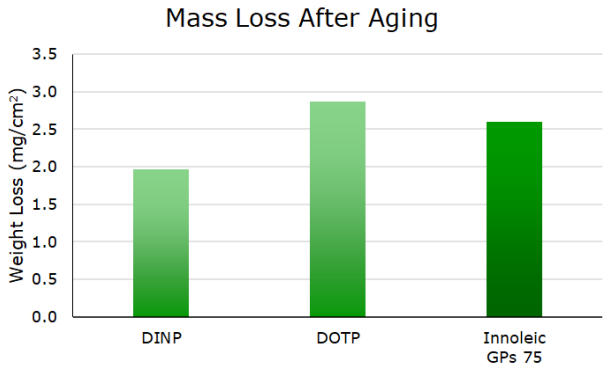
Innoleics USA Corp has earned the U.S. Department of Agriculture (USDA) Certified Biobased Product label. The product INNOLEIC™ GPs 75 has earned the USDA Certified Biobased Product Label: INNOLEIC™ GPs 75 with 100% biobased content.

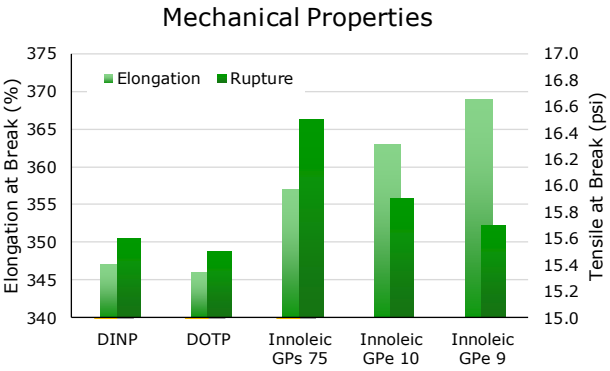
PERFORMANCE

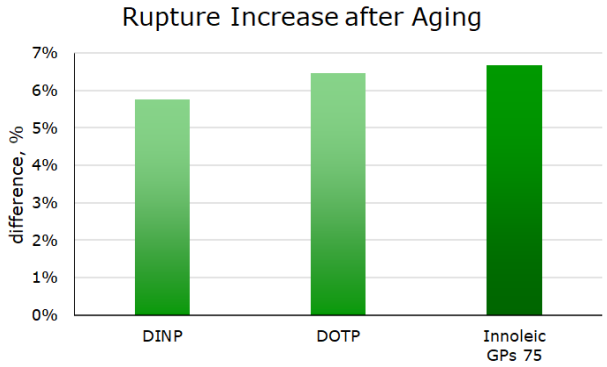
Innoleic™ GPs 75 presents improved efficiency and lower fusion temperatures when compared to traditional general-purpose plasticizers while maintaining similar mass loss and mechanical properties retention after aging. It also confers higher elongation and higher tensile strength to the final articles.

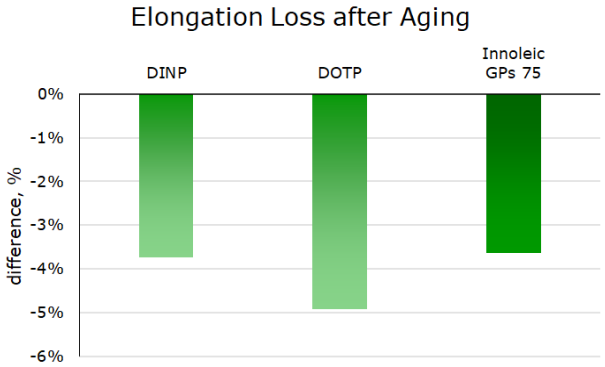












Notes: Hardness-adjusted compounds to 72 Shore A (s-PVC Resin with K value 65, CaZn thermal stabilizer 2phr)
Formulations with petroleum-based plasticizers included 5phr of ESO as co-stabilizer
Oven aging @ 100 °C, 12 air exchanges/hour, 168 hours

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).