#### **Innoleics Corp USA.**

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# **Technical Data Sheet**



# INNOLEIC™ GPe 10

#### PRODUCT DESCRIPTION

Innoleic<sup>™</sup> 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**

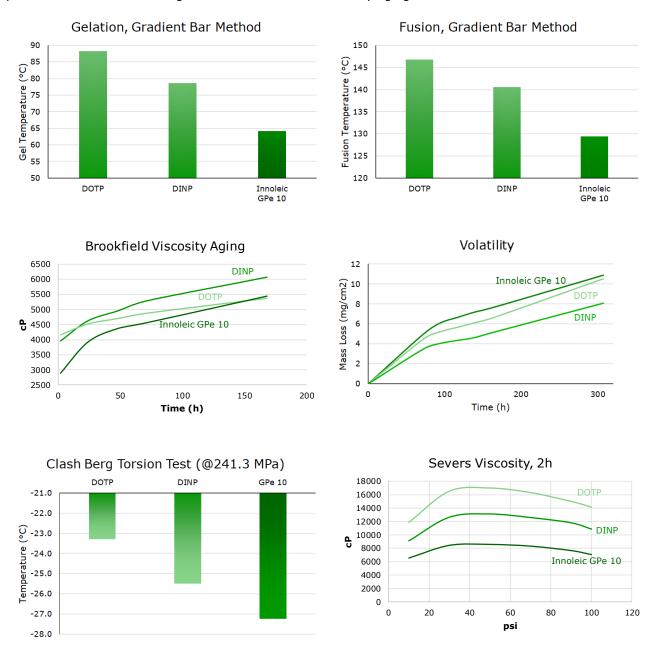
Reduced plastisol gelation and fusion	0	Increased throughput, reducing unit manufacturing costs		
temperatures when compared to other	0	Lower oven temperatures, reducing energy costs		
general-purpose plasticizers	0	Wider array of heat-sensitive substrates and components		
Improved low-temperature flexibility	0	Lower concentration of low-temperature additives		
Improved thermal stabilization due to its	0	Allows the complete replacement of ESO as a co-		
inherent Epoxy groups		stabilizer, simplifying the formulation and reducing raw		
		material inventory and SKUs		
Similar volatility and viscosity aging when	0	Similar service life of final goods		
compared to petroleum-based general-	0	Little need for formulation adjustments		
purpose plasticizers				
Improved dry-up time for S-PVC	0	Reduced dry-blend cycle time		
compounds				
Reduced fusion temperatures when used as	0	Increased clarity and surface gloss of final products		
a replacement for petroleum-based				
general-purpose plasticizers				
Reduced carbon footprint	0	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 <sup>3</sup>	PE 0005	0.930-0.960	0.939
Acidity, (1g KOH/g)	PE 0004	3.0 max.	0.5
Iodine Index, cg I <sub>2</sub> /g	PE 0002	3.5 max.	1.5
Oxirane Index, weight%	PE 0001	5.0 min.	6.5

#### **PERFORMANCE**

Innoleic<sup>™</sup> 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).

This information refers only to the specific material here described and cannot be considered valid in case the material is used in combination with any other materials or processes. It is the user's entire responsibility to ensure that the material is adequate for its purpose and use. Innoleics cannot accept any liability for losses or damages that might incur due to the use of this information, nor offer any assurance against intellectual property violations