

## INNOLEIC™ GPs 50

### PRODUCT DESCRIPTION

Innoleic™ GPs50 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"> <li>○ Increased throughput, reducing unit manufacturing costs</li> <li>○ Lower oven temperatures, reducing energy costs</li> <li>○ Wider array of heat-sensitive substrates and components</li> </ul>
Improved thermal stabilization due to its inherent Epoxy groups	<ul style="list-style-type: none"> <li>○ Allows the complete replacement of ESO as a co-stabilizer, simplifying the formulation and reducing raw material inventory and SKUs</li> </ul>
Slightly higher volatility and viscosity aging when compared to petroleum-based general-purpose plasticizers	<ul style="list-style-type: none"> <li>○ Similar service life of final goods</li> <li>○ Little need for formulation adjustments</li> </ul>
Improved dry-up time for S-PVC compounds	<ul style="list-style-type: none"> <li>○ Reduced dry-blend cycle time</li> </ul>
Reduced fusion temperatures when used as a replacement for petroleum-based general-purpose plasticizers	<ul style="list-style-type: none"> <li>○ Increased clarity and surface gloss of final products</li> </ul>
Reduced carbon footprint	<ul style="list-style-type: none"> <li>○ Primary phthalate-free alternative, vegetable-based product providing a lower carbon footprint</li> </ul>

### PROPERTIES

Characteristic	Method	Specification	Typical Values
Color	PE 0006	Light yellow	Pass
Spec. Gravity (25°C), g/cm <sup>3</sup>	PE 0005	0.975-0.990	0.988
Acidity, (1g KOH/g)	PE 0004	3.0 max.	1.5
Iodine Index, cg I <sub>2</sub> /g	PE 0002	4.0 max.	2.1
Oxirane Index, weight%	PE 0001	5.0 min.	6.1

### 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).



Innoleics USA Corp has earned the U.S. Department of Agriculture (USDA) Certified Biobased Product label. The product INNOLEIC™ GPs 50 has earned the USDA Certified Biobased Product Label: INNOLEIC™ GPs 50 with 99% biobased content.