



Advanced Materials

# Plasticizers

GENERAL PURPOSE  
SPECIALTY PLASTICIZERS  
PHTHALATE - FREE

alphagary



Polymer  
Solutions

# Wide variety of plasticizers for even the most stringent applications

## MEXIFLEX

Plasticizers for semi-rigid and flexible PVC formulations

The following brochure presents an overview of a wide plasticizer product portfolio we offer for different applications. The portfolio has evolved to the needs of the next generation over the course of decades. What makes us exceptional is that we customize materials to satisfy the customers' requirements. We pride in looking for ways to identify and address customer pain points and offering top-notch material solutions. Our technical sales and engineering team will communicate with you to optimize processing, support approval requirements, and ensure smooth scale-up once the production starts. Reach out to start collaborating with us today.

## Applications

Our plasticizers are used in a vast array of applications, they represent the highest additive volume within our flexible and semirigid formulations. Not only decreasing the glass transition temperature (Tg) but at the same increasing the following features:

- Compatibility with other additives
- Flame resistance
- Low temperatures performance
- Outdoor properties
- Good flexibility and elongation

We will work side-by-side with you throughout your trial and approval process, production scale-up and beyond. Our goal is to be your partner of choice today, and for next-generation requirements.



Health care products (masks, tubing, blood bag, etc)



Wire & Cable



Automotive Industry



Food packaging



Baby & kid products



Tool handles & grips



Wearables (garment hangers) & footwear



Appliance parts (seals, pads, gaskets, connectors)



# Plasticizers for PVC compounds

MEXIFLEX® plasticizers for semi-rigid and flexible PVC formulations.

| General Purpose | Specialty |             | Phthalate-Free |
|-----------------|-----------|-------------|----------------|
| DOP             | 911 P     | L 11P (DUP) | TOTM           |
| DINP            |           |             | DOTP           |
| DPHP            | 810 TM    | 8 TM        | DOA            |

Please contact one of our specialists for detailed information.

## Features

| Plasticizer | Plasticization | Mechanical properties | Low temperatures resistance | Resistance to chemical extraction | Volatility |
|-------------|----------------|-----------------------|-----------------------------|-----------------------------------|------------|
| DOP         | ●●●            | ●●●                   | ●                           | ●●                                | ●●●        |
| DINP        | ●●             | ●●●                   | ●                           | ●●●                               | ●●         |
| DPHP        | ●●             | ●●                    | ●                           | ●●                                | ●●         |
| 911P        | ●●             | ●●●                   | ●●                          | ●●                                | ●          |
| L11P (DUP)  | ●              | ●●●                   | ●●                          | ●●                                | ●          |
| 810TM       | ●              | ●●●                   | ●                           | ●●                                | ●          |
| 8TM         | ●              | ●●●                   | ●●                          | ●●                                | ●          |
| TOTM        | ●              | ●●●                   | ●                           | ●●●                               | ●          |
| DOTP        | ●●             | ●●●                   | ●                           | ●●●                               | ●●         |
| DOA         | ●●●            | ●●                    | ●●                          | ●                                 | ●●●●       |

●●●● Very High   ●●● High   ●● Medium   ● Low

## Most commonly used applications

| Plasticizer | Automotive | Wire&Cable | Construction | Food contact | Footwear | Medical | Packaging |
|-------------|------------|------------|--------------|--------------|----------|---------|-----------|
| DOP         | ●          | ●          | ●            | ●            | ●        | ●       | ●         |
| DINP        |            | ●          |              | ●            |          | ●       |           |
| DPHP        | ●          | ●          |              |              |          |         |           |
| 911P        | ●          | ●          | ●            |              |          |         |           |
| L11P (DUP)  | ●          | ●          | ●            |              |          |         |           |
| 810TM       | ●          | ●          | ●            |              |          |         |           |
| 8TM         | ●          | ●          | ●            |              |          |         |           |
| TOTM        | ●          | ●          | ●            |              |          | ●       |           |
| DOTP        | ●          | ●          | ●            | ●            | ●        | ●       | ●         |
| DOA         |            | ●          |              | ●            | ●        | ●       |           |

## Regulatory

| Plasticizer | Prop. 65 | REACH | RoHS |
|-------------|----------|-------|------|
| DOP         |          |       |      |
| DINP        |          |       | ✓    |
| DPHP        | ✓        | ✓     | ✓    |
| 911P        | ✓        | ✓✓    | ✓    |
| L11P (DUP)  | ✓        | ✓✓    | ✓    |
| 810TM       | ✓        | ✓     | ✓    |
| 8TM         | ✓        | ✓     | ✓    |
| TOTM        | ✓        | ✓✓    | ✓    |
| DOTP        | ✓        | ✓✓    | ✓    |
| DOA         | ✓        | ✓     | ✓    |

✓✓ Alphagary has REACH Registration

### Ortho-Phthalates (DOP, DPHP, 911P, L11P (DUP), DINP)

Ortho-Phthalates Plasticizers have been used across the world as phthalates. They have numerous applications and high compatibility with PVC applications. Their performance is considered a market standard and they stand out by their low volatility, good mechanical properties and outdoor resistance.

### Trimellitates (TOTM, 8TM, 810TM)

This Non-Phthalic Plasticizers stand out for their high permanency, extraction resistance, and mechanical retention properties. This group of plasticizers are recommended for high temperatures and outdoor exposures as wire and cable, insulation or packaging.

### Terephthalates (DOTP)

This Non-Ortho Phthalic Plasticizer DOTP has demonstrated being an excellent substitute for DOP, with a high temperature performance and high extraction resistance. It application is recommended in medical grades, wire and cable and packaging.

### Adipates (DOA)

This Non-Phthalic Plasticizer stands out by its high plastifier efficiency. It's an excellent option for low temperature and food contact applications such ad stretch film. It is no recommended for resistant extraction applications.

- Our facilities in Mexico are designed for the production of PVC compounds and plasticizers for a wide variety of applications, with onsite R&D capabilities to aid in specialized material design.
- Enhance performance features such as UV resistance, chemical resistance and fungus resistance available
- REACH, RoHS and Prop 65 compliant grades.
- Advancing Life Around the World in Mexico! We make our processes more efficient and sustainable every year such as in our Altamira facility where we increased our production levels and reduced CO<sub>2</sub> emissions of 1,000 TON CO<sub>2</sub> eq/year.



### Ortho-phthalates

DOP, DPHP, 911P, L11P (DUP), DINP



### Trimellitates

TOTM, 8TM, 810TM



### Terephthalates

DOTP



### Adipates

DOA

Since the 1960s, Alphagary has earned its reputation for providing innovative, functional and durable solutions to a broad marketplace, often custom formulating a material to meet end-user and market-specific requirements. We work with an extensive range of polymers, giving our global customer base a variety of features to choose from as they create products that we rely upon for safety, health and comfort in our everyday lives.

We are passionate about safety, dedicated to quality, and committed to harnessing the power of material science and innovation to serve customer needs, address world challenges and provide sustainable solutions.



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