

VC coated polyester is the flexible material most frequently used in tents, banners, energy efficient and lightweight architectural textiles, pool liners, seat covers as well as rotective clothes.



sticisers add durability and product ility to sealants and adhesives. In additio uce costs and optimise performance.



PVC can be calendered and embossed into films of different thickness and flexibility to be used in various applications such as stationery articles, banners, decorative films, and labels.



asticised PVC medical devices have been used ifely for over 60 years. Flexible PVC owes its success o its transparency and unsurpassed anti-kinking roperties becoming a primary choice for tubing, ood bags, examination and surgical gloves.



ng service life, durability and recyclability affordable costs.



CLADDING, ROOFING, WALLCOVERING

Flexible PVC – often reinforced with fiberglass or polyester – is durable, insulates, can stand bad weather and has good resistance to ultraviolet light and ozone.



Plasticisers are used in automotive parts making them flexible

But you also find plasticisers in the interlayer of safety glass and

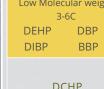
and resilient, e.g. in artificial leather and underbody coatings.

n dashboards, which must be safe in the event of an impact.

In brake systems and fuel lines, polyamide is plasticised to get

the necessary resilience.

Plasticisers make paint softer, more flexible and adherent. They can be used in coatings or other applications for which very low level of emissions is desired.



DCHP

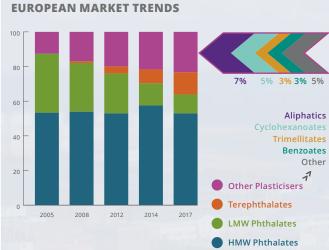
Plasticisers (US: plasticizers) are colourless and odourless liquids used primarily to soften plastic. Over 85% of all plasticisers consumed in Europe are employed in durable flexible PVC applications, largely for the construction, automotive and wire & cable sectors. Some plasticisers are used in non-PVC applications such as coatings, rubber products, adhesives and sealants.

Over the last 60 years more than 30,000 different substances have been evaluated for their plasticising properties but only about 50 respond to the strict European criteria allowing their commercialisation. Each plasticiser is evaluated and regulated for its use in specific applications ensuring the highest performance, sustainability and safety standards.



Source: 2018 IHS and European Plasticisers estimate:

The European market has evolved rapidly in response to market and regulatory pressure. Orthophthalates make up the majority of the plasticisers followed by terephthalates. Other plasticisers are also gaining market share. Globally, low molecular weight (LMW) phthalates still represents almost 40 percent of all consumption and are still very popular in Asia, the Middle East, Africa and Latin America. Source: 2018 IHS and European Plasticisers estimates



CLASSIFIED **PLASTICISERS**

Included in REACH Candidate List or pending Authorisation

ORTHOPHTHALATES Low Molecular weight

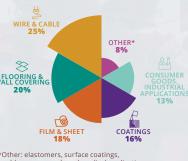
NON-CLASSIFIED PLASTICISERS

Sebacates ORTHOPHTHALATES DMS DBS High Molecular weight ≥ 7C DINP DIDP DPHP DEHA DINA Cyclo-**Terephthalates** ASE hexanoates DOTP DBT Phosphate TPP Citrates **Dibenzoates Trimellitates Butyrates** ODEB OXPDE Vegetable Oil based Valerates

This table is for illustration purposes only. The list of plasticisers is non-exhaustive and box sizes do not accurately represent market volumes.

Globally, almost 7.5 million tonnes of plasticisers are consumed every year, of which European consumption accounts for over 1.35 million tons.

EUROPE'S PLASTICISERS USE



Modern plasticisers have undergone extensive testing for possible health and environmental effects and are amongst the most widely researched of all chemical substances. In Europe, the safe use of plasticisers is regulated under REACH, the most comprehensive product safety regulation in the world.

europeanplasticisers.eu plasticisers.org





Flexible PVC makes toys soft, flexible and safe by replacing or protecting sharp edges and avoiding brittleness. In Europe, the choice of plasticisers used to manufacture toys is



ns well as stain resistant. While requiring low maintenance, they ensure high hygienic standards and are therefore widely used in private houses as well as hospitals, sport halls or schools.



Rue Belliard 40
B-1040 Brussels - Belgium
Tel: + 32 2 436 94 64 ©EuropeanPlasticisers europeanplasticisers.eu info@europeanplasticisers.eu

A sector group of Cefic **

EU Transparency Register n° 64879142323-90



Plasticiser-containing rubber is commonly rubber's overall flexibility, low temperature















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