Uniplex® 354
Plastic Additives / Plasticizer

Description
Uniplex 354 is a dibenzoate used as non-phthalate plasticizer with high solvating characteristics for coatings, adhesives and plastisols.

Chemical composition
2,2,4-Trimethylpentane-1,3-diol dibenzoate

CAS Registry Number
68052-23-3

Supply form
Clear liquid

Typical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Unit</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content</td>
<td>95 min.</td>
<td>%</td>
<td>Gas chromatography total esters</td>
</tr>
<tr>
<td>Acidity</td>
<td>0.1 max.</td>
<td>%</td>
<td>Titration as benzoic acid</td>
</tr>
<tr>
<td>Hazen colour value</td>
<td>125 max.</td>
<td>--</td>
<td>Hazen</td>
</tr>
<tr>
<td>Water content</td>
<td>0.1 max.</td>
<td>%</td>
<td>Karl Fischer</td>
</tr>
<tr>
<td>Refractive index nD25°C</td>
<td>approx. 1.529</td>
<td>--</td>
<td>Refractometer</td>
</tr>
<tr>
<td>Density, 25°C</td>
<td>approx. 1.08</td>
<td>g/cm³</td>
<td>Densitometer</td>
</tr>
<tr>
<td>PVC Dissolution temperature</td>
<td>approx. 124</td>
<td>°C</td>
<td>DIN 53408 (based on)</td>
</tr>
<tr>
<td>Pour point</td>
<td>approx. minus 12</td>
<td>°C</td>
<td>Thermal</td>
</tr>
</tbody>
</table>

The analytical data are general guide values.

Storage
If correctly stored and kept in the original sealed package, the shelf life is at least 12 months.

Packaging
Drums
**General properties**

Uniplex 354 is a non-phthalate benzoate plasticizer with high solvating characteristics for coatings, adhesives and plastisols. Uniplex 354 is characterised by a good compatibility with a large number of polymers such as polyvinyl chloride (PVC), polyvinyl acetate (PVAc), and polyacrylates. Uniplex 354 enables a good processing with PVC and shows a moderate plasticizing efficiency. Due to low migration properties it offers bleed resistance to plasticized PVC, a property which is particularly useful in PVC plastisol printing on coloured fabrics.

**Applications**

Uniplex 354 is used as a plasticiser for a wide range of articles based on polyvinyl chloride (PVC), polyvinyl acetate (PVAc), and polyacrylates. Typical applications are:

1. PVC plastisol printing on coloured fabrics
2. Plastisols for artificial leather, flooring, wallpaper, and inks
3. Plasticizer for adhesives, caulks and sealants

**Handling & Safety**

A receiving inspection is recommended. The product should be stored in its tightly sealed original container in a cool, dry place. Once opened, containers should be resealed tightly after removal of product. Consult material safety data sheet (MSDS) for additional handling information on Uniplex 354.

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