Uniplex® 262
Plastic Additives / Plasticizer

Description
Uniplex 262 is a solid dibenzoate plasticizer, binder and modifier for a wide range of polymers. Uniplex 262 is finding applications in hot melt adhesives, cleaning material for hot melt roll coaters and powder coatings.

Chemical composition
1,4-Cyclohexandimethanol dibenzoate

CAS Registry Number
35541-81-2

Supply form
Off white, crystalline particles (lumps or granules)

Typical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Unit</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay</td>
<td>98.0 min.</td>
<td>%</td>
<td>Gas chromatography as benzoate esters</td>
</tr>
<tr>
<td>Acidity</td>
<td>0.20 max.</td>
<td>%</td>
<td>Titration as benzoic acid</td>
</tr>
<tr>
<td>Water content</td>
<td>0.10 max.</td>
<td>%</td>
<td>Karl Fischer</td>
</tr>
<tr>
<td>Hydroxyl Number</td>
<td>15 max.</td>
<td>mg KOH/g</td>
<td>Titration</td>
</tr>
<tr>
<td>Hazen color number</td>
<td>50 max.</td>
<td>--</td>
<td>10% in acetone</td>
</tr>
<tr>
<td>Melting Point</td>
<td>approx. 118</td>
<td>°C</td>
<td>Thermal</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>352</td>
<td>g/mol</td>
<td>Calculation</td>
</tr>
<tr>
<td>Odor</td>
<td>typical</td>
<td>--</td>
<td>Sensoric</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 24 months.

Packaging
Paper bags
General properties
Uniplex 262 is a non-phthalate dibenzoate plasticizer, binder and modifier for a wide range of polymers. Uniplex 262 is characterised by a good compatibility with a large number of polymers such as polyvinyl chloride (PVC), ethylene vinyl acetate (EVA), styrenics (SBS), polyvinyl acetate (PVAc), polyurethane (PU), and polyesters.
Uniplex 262 is a white solid plasticizer supplied in ground form for convenience. The material, when exposed to heat, will liquefy and will later resolidify after the heat is removed.
Uniplex 262 is used as hot melt adhesive modifier, is able to replace waxes and improves overall performance properties here, i.e. tensile strength and %elongation at break of ethylene vinyl acetate (EVA) compositions.
When Uniplex 262 is used to clean hot melt coating and laminating equipment, the resolidified material can be disposed of as a solid waste.

Applications
Uniplex 262 is used as a plasticizer, binder and modifier for a wide range of articles.
Typical applications are:
1. Hot melt adhesives
2. Pressure sensitive adhesives
3. Heat reactive thermal delayed tack applications
4. Cleaning material for hot melt roll coaters
5. Powder coatings
6. Latex applications
7. Thermoplastic processing aid

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 262.

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