Biodegradable

Drinking straws

Technology in tune with nature
### Biodegradable Drinking Straws: Technology in tune with nature

#### Specials

<table>
<thead>
<tr>
<th>Spoon Straw</th>
<th>Bubble Tea Straw</th>
<th>Extra Long</th>
<th>Crazy Straw</th>
<th>Christmas Straw</th>
</tr>
</thead>
</table>

#### Industrial

**U-Straw, I-Straw, Twisted U-Straw**

(drinking straws in a range of shapes and colours in transparent packaging)

**T-Straw, P-Straw, Large Bore Straw, Reverse Telescopic, Ex Straw**

(drinking straws in a range of shapes and colours in transparent packaging)

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### Table: Straight

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (cm)</td>
<td>10-1000</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>10-100</td>
</tr>
<tr>
<td>Material</td>
<td>Polypropylene</td>
</tr>
</tbody>
</table>

Also available wrapped individually in paper, film and d2w film.

Printing available on both paper and film.

### Table: Flexibles

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (cm)</td>
<td>19-25</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>04-08</td>
</tr>
<tr>
<td>Material</td>
<td>Polypropylene</td>
</tr>
</tbody>
</table>

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Printing available on both paper and film.

### Quotations available on request
Advantages of $d_2w$

Little extra cost as there is no need for special equipment and only requires small inclusion rate.

$d_2w$ straws behave in the same way as regular straws during their useful life. Therefore they are strong and do not disintegrate/become soggy like paper straws.

You can produce any kind of $d_2w$ straws (e.g. longer, shorter, thinner, bendy, different colours)

Our customers receive full support from Symphony’s technical team.

$d_2w$ straws can be recycled like conventional plastics.

$d_2w$ biodegradable straws are less likely to bring about health issues such as the spread of disease, compared to reusable straws like bamboo and metal as they are difficult to clean.

$d_2w$ straws are already being manufactured and have undergone testing.

If $d_2w$ straws become littered, unlike conventional plastic straws, they will break down in the open environment into nothing more than $CO_2$, water and biomass.

Examples of companies already using $d_2w$ straws

Quotations available on request
Credentials

d₂W is the only oxo-biodegradable additive with the internationally recognised ABNT Eco-Label for environmental quality.

Tested to the following standards:


Our technical managers are fully qualified polymer engineers and we have well equipped, expertly staffed laboratories in the UK and other locations across the world.

d₂W has been tested for food-contact safety according to the requirements of the E.U. regulation No. 10/2011 and The Food and Drugs Administration of the United States, Code of Federal Regulation, Title 21 and ANVISA ROC 17/2008

Non-Ecotoxic in compost tested according to OECD 208 and EN13432 - by independent laboratories RAPRA, Applus and OWS (Belgium).

Pre-treatment is better than cure

Symphony Environmental Technologies
6 Elstree Gate, Elstree Way, Borehamwood, Hertfordshire WD6 1JD

020 8207 5900 - info@d2w.net - www.d2w.net