Plant-derived superhigh-index lens material.

Reduces total greenhouse gas by 14% compared to petroleum-derived lens material.

Bio-based

*According to our Life Cycle Assessment (LCA) procedure*
A shift from petroleum-derived to plant-derived lens materials
Do Green™ MR-174™ helps reduce CO₂ emissions.

Features

• Do Green™ MR-174™ is a superhigh-index 1.74 lens made from plant-derived materials.

• This plant-derived lens material offers performance equivalent to conventional petroleum-derived products.

• JORA and USDA certified biomass products*1 *2

• Product manufacture generates 14% less greenhouse gas emissions than conventional petroleum-derived materials.*3

Premium optical quality

High-quality lens with minimum stress strain.

Superhigh-index

Offering among the highest refractive indexes possible, this optical material can be used to produce light, thin lenses, even for strong prescriptions.

Durability and weather resistance

Outstanding weather resistance prevents changes in hue over time and provides long-lasting coating performance.

Properties

<table>
<thead>
<tr>
<th></th>
<th>DoGreen™ MR-174™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomass Degree*</td>
<td>80-90%</td>
</tr>
<tr>
<td>R.I. (ne)</td>
<td>1.74</td>
</tr>
<tr>
<td>Abbe Number (ve)</td>
<td>32</td>
</tr>
<tr>
<td>Heat Distortion Temperature (°C)</td>
<td>78</td>
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<tr>
<td>Specific Gravity</td>
<td>1.47</td>
</tr>
<tr>
<td>Tintability</td>
<td>OK</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>OK</td>
</tr>
</tbody>
</table>

* Proportions of biomass-based carbon vs. fossil-based carbon (14C content measurements are based on the ASTM-D6866-12 method)

The values provided are representative measurements obtained by specific testing methods at Mitsui Chemicals. They are not guaranteed values.

JORA biomass degree*1

30% to 40%

USDA biomass degree*2

82%

*1 JORA certification: Biomass mark indicating certification by the Japan Organic Recycling Association of environmental products recycled from bio-based resources (biomass) and meeting applicable quality regulations, standards, and criteria

*2 USDA certification: Biomass mark indicating plant-derived certification by the United States Department of Agriculture (USDA BioPreferred®)

*3 According to our Life Cycle Assessment (LCA) procedure

http://www.mitsuichem.com/special/mr/index.htm

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