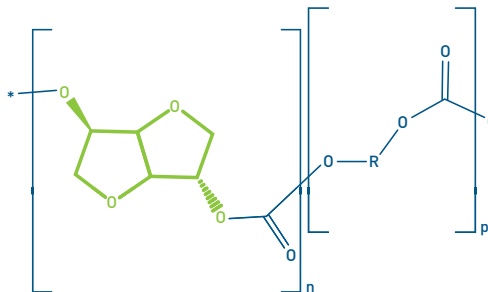
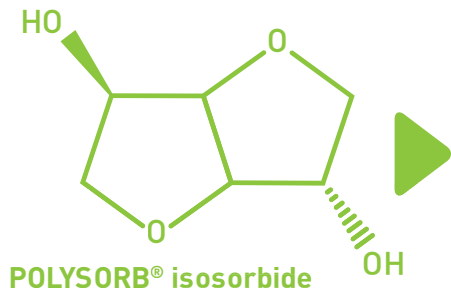


# Much more than just a polycarbonate



POLYSORB®  
**Isosorbide**

## KEY BENEFITS

- ▶ Chemical & UV resistance
- ▶ High impact polymer
- ▶ Good surface hardness
- ▶ Optical properties



Outside furniture



Optical films

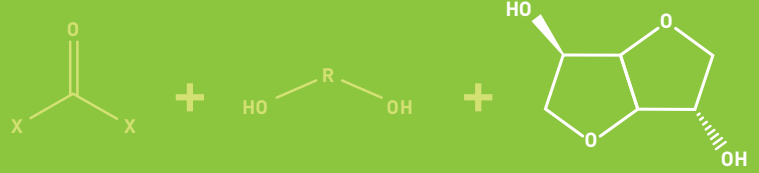


Optical lenses



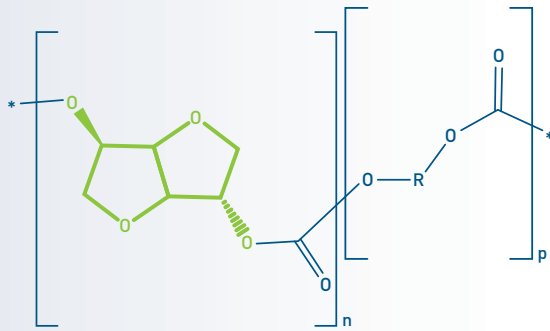
Cars interiors





## MAIN TIPS FOR SYNTHESIS

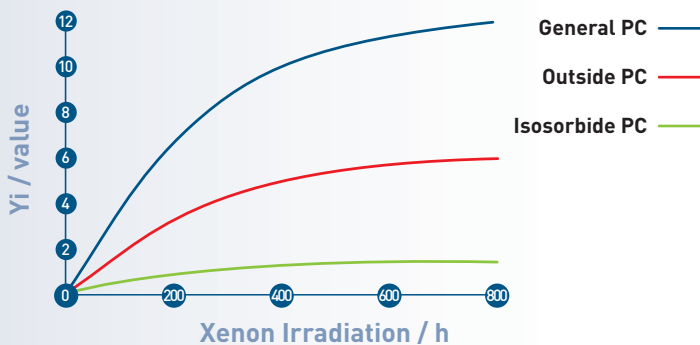
- ▶ Avoid oxygen
- ▶ Use diphenyl carbonate as reactant



Isosorbide-based polycarbonate

## HELP POLYCARBONATE TO FACE SUNNY WEATHER THANKS TO ISOSORBIDE

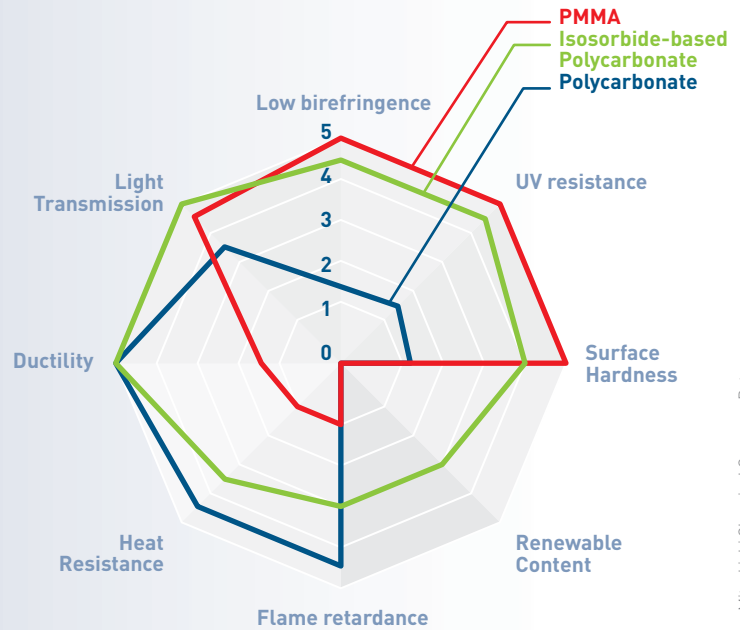
Super xenon weather meter  
Irradiation intensity: 180 W/m<sup>2</sup> (300-400nm)  
B.P.T. 53°C ; Humidity 50%



TEIJIN Data

## GENERAL OVERVIEW OF IMPROVED PROPERTIES

THANKS TO POLYSORB® ISOSORBIDE



Mitsubishi Chemical Company Data

Isosorbide-based Polycarbonate combines standard Polycarbonate and PMMA properties, thus enabling new market opportunities where a combination of all the below properties are needed:

- ▶ Surface hardness
- ▶ UV resistance
- ▶ Transparency
- ▶ Impact resistance

Isosorbide is more than just a «DROP IN» solution to replace Bisphenol A!

Our experts can help you to gain value in Polycarbonate with isosorbide

TO ORDER NOW  
[www.roquette.com/contact-us](http://www.roquette.com/contact-us)

FOR MORE INFORMATION  
[www.roquette.com](http://www.roquette.com)

  
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