



SON.hyx technology



New Crystal Glass

Crystal glass from Luigi Bormioli has always been produced with the purest raw materials, without the use of lead, and with advanced technology. This gives it a high level of transparency and brilliance.

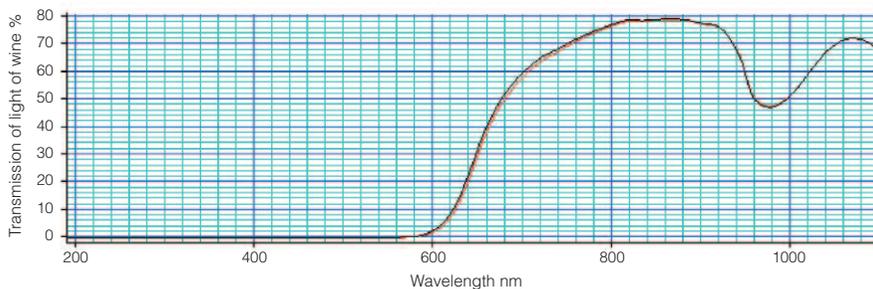
Now, the Luigi Research Facility has created a new type of crystal glass (still without lead) that has even more exceptional optical properties and improved resistance to chemical and mechanical attacks.

This new material, named SON.hyx, is produced using advanced technology and sophisticated processes, and has acoustic properties associated with that typical of high end crystal.

Optical Properties

SON.hyx may be defined as a totally light permeable material as it is absolutely transparent and totally colourless. The light transmission through SON.hyx crystal glass is substantially the same as the light transmission through pure quartz (totally transparent and colourless).

The diagram shows this similarity comparing, (by means of a Spectrophotometer), the colour of a red wine contained in SON.hyx crystal glass with the colour of the same red wine contained in pure quartz.



See pages 57, 58 and 59 for SON.hyx ranges.



Bowl impact test



Stem impact test



Stem twisting test



Rim impact test

Mechanical Properties

Glassware made with SON.hyx crystal has improved resistance to mechanical shocks. Laboratory tests have given the following results.

- Up to 37.5% increase in rim strength.
- Up to 105% increase in resistance to mechanical shocks.
- Up to 98% increase in resistance to breakage through twisting at the stem during hand cloth drying.

Chemical Properties

Tests have demonstrated that SON.hyx crystal glassware has an exceptional resistance to industrial dish wash detergents and chemicals. After 4,000 wash cycles in commercial dishwashers SON.hyx crystal glassware retains all in original properties.

