

# PP

Impact copolymer for injection molding

## ► BI451

### ● Description

BI451 is a block copolymer polypropylene resin for injection molding applications. This grade is produced by Hanwha Total HIPP technology.

### ● Characteristics

HIPP impact copolymer grade offers superior rigidity as well as excellent impact resistance due to the ideal combination of highly crystalline homo matrix and optimum rubber morphology control. In addition, melt flowability of HIPP resin is significantly better than conventional PP resins.

### ● Applications

► Compound Base Resin , Garden Chair, Outdoor Chair/table etc

### ● Physical Properties

| Typical Properties         | Method (ASTM) | Unit               | BI451  |
|----------------------------|---------------|--------------------|--------|
| Melt flow index            | D1238         | g/10min            | 8      |
| Density                    | D1505         | g/cm <sup>3</sup>  | 0.91   |
| Tensile strength at yield  | D638          | kg/cm <sup>2</sup> | 350    |
| Elongation at break        | D638          | %                  | 200    |
| Flexural modulus           | D790          | kg/cm <sup>2</sup> | 18,000 |
| Izod impact strength 23 °C | D256          | kgcm/              | 11     |
| -20 °C                     |               | cm                 | 4.5    |
| Rockwell hardness          | D785          | R-scale            | 99     |
| Heat distortion temp.      | D648          | °C                 | 135    |

\* Data shown above are representative values for reference purposes only, and not to be construed as specifications.

\* Data performed by or on behalf of Hanwha Total

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## ● **Food Contact Application**

- ▶ Hanwha Total BI451 meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.
- ▶ In case you might need additional technical or regulatory information, please contact Hanwha Total Polymer Technical Service Team.

## ● **Contacts**

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### ▶ **Product Information & Technical Services**

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