

# PP

Impact copolymer for injection molding

## ▶ BI452

### ● Description

BI452 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

- ▶ Automobile: Interior Parts (Trim, Pillar), Compound Base Resin
- ▶ E & E Parts: Microwave Oven Tray, Refrigerator Cover, etc

### ● Physical Properties

Typical Properties	Method (ASTM)	Unit	BI452
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>	340
Elongation at break	D638	%	200
Flexural modulus	D790	kg/cm <sup>2</sup>	17,500
Izod impact strength 23 °C	D256	kgcm/	11
-20 °C		cm	4.5
Rockwell hardness	D785	R-scale	97
Heat distortion temp.	D648	°C	130

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

## ● **Food Contact Application**

- ▶ Hanwha Total BI452 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**

---

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

103, Dokgot 2-ro, Daesan-eup, Seosan-si, Chungcheongnam-do,  
Korea, 31900

TEL : 82-41-660-6190      FAX : 82-41-660-6189

### Disclaimer

*This document is copyright of Hanwha Total petrochemicals Co., Ltd. Any and all information and the values in this document are typical properties for reference, not to be confused with, or regarded as specification. Customers are responsible for determining whether our products and information are suitable for their particular purpose and for ensuring that Customer's location and handling practices are in compliance with laws and regulations. HANWHA TOTAL assumes no obligation or liability for the information in this document. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY HANWHA TOTAL. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. HANWHA TOTAL is entitled to alter, change or modify any of the content herein at any time without prior notice, but not under any duty to do so.*