

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 -20 °C	D256	kgcm/ cm	11 4.5
Rockwell hardness	D785	R-scale	99
Heat distortion temp.	D648	°C	135

## ● **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.