

PP

High flow / high stiff Impact copolymer
for Injection Molding

► BI740

● Description

BI740 is a highly isotactic block copolymer with high crystallinity. It shows an excellent balance of strength and impact resistance due to the application of high crystalline technology and the most appropriate rubber design. Its excellent gloss and surface hardness also make it useful in the exterior of family appliances.

● Characteristics

- ▶ Excellent flowability, strength / hardness
- ▶ High flowability/high strength : Allows for larger and thinner injection Molded products
- ▶ High heat resistance → High utilization temperature
- ▶ High crystallinity → Short cooling time after injection molding to allow for high speed production
- ▶ Good surface hardness → Superior scratch resistance

● Applications

- ▶ Large E&E articles, base resin for PP compound (auto & E&E)

● **Physical Properties**

Typical Properties	Method (ASTM)	Unit	BI740
Melt flow index	D1238	g/10min	25
Density	D1505	g/cm ³	0.91
Tensile strength at yield	D638	kg/cm ²	340
Elongation at break	D638	%	>50
Flexural modulus	D790	kg/cm ²	17,500
Izod impact strength at 23°C	D256	kgcm/cm	6.0
-20°C			3.5
Rockwell hardness	D785	R-scale	97
Heat distortion temp.	D648	°C	132

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

● **Food Contact Application**

- ▶ Hanwha Total BI740 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.