

PP

High Flow Impact copolymer (MI=80)

▶ BI990

● Description

BI990 is high flow impact copolymer for injection molding applications. BI990 is reactor-made block PP, which exhibits high rigidity as well as excellent impact strength due to the ideal combination of highly crystalline homo matrix and well-designed rubber morphology. They are suitable for the injection molding of large-scale articles and thin products.

● Characteristics

- ▶ Excellent balance between stiffness & impact strength
- ▶ Long-term heat resistance and high flowability

● Applications

- ▶ Large E&E articles, base resin for PP compounds (auto & E&E) thin wall injection molding (TWIM) containers, housewares

● Physical Properties

Typical Properties	Method(ISO)	Unit	BI990
Melt flow index at 230 °C	ISO1133	g/10min	80
Tensile strain at yield	ISO527 50mm/min	%	3
Tensile stress at yield	ISO527 50mm/min	MPa	29
Tensile strain at break	ISO527 50mm/min	%	<50
Flexural modulus	ISO178 2.0mm/min	MPa	1,650
Izod impact strength (notched)	ISO180	KJ/m ²	23 °C
			0 °C
			-20 °C
Charpy Impact strength (notched)	ISO179	KJ/m ²	23 °C
			0 °C
			-20 °C
Heat deflection temperature at 0.45 MPa (HDT/B)	ISO75	°C	100

* ISO specimens are used for the evaluation.

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

● **Food Contact Application**

- ▶ Hanwha Total BI990 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 Customer Service Team.

● **Contacts**

▶ **Product Information & Technical Services**

103, Dokgot 2-ro, Daesan-eup, Seosan-si, Chungcheongnam-do,
Korea, 356-711

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.