

Hanwha Total PP BI990

Polypropylene Impact Copolymer

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BI990, HIPP, 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 & Applications

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

General Information			
Features	High Flow		
	High Impact Resistance		
	High Rigidity		
	Impact Copolymer		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Household Goods		
	Thin-walled Containers		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	80	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31.4	MPa	ASTM D638
Tensile Elongation (Break)	< 50	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	29	J/m	
0°C	29	J/m	
23°C	49	J/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature	120	°C	ASTM D648

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