

# Hanwha Total PP BI961

Polypropylene Impact Copolymer  
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BI961, HIPP, is a very high flow impact copolymer manufactured by reactors for injection molding applications. They exhibit a high rigidity as well as an excellent impact strength due to the ideal combination of highly crystalline homo matrix and the well-designed rubber morphology. They allow the injection molding of large articles which require high melt flowability and complex geometries.

Characteristics & Applications

High productivity and reduction in energy and cost

Excellent balance between stiffness & impact strength

Good heat stability, little volatile materials, and odor-free

Applications: Large E&E articles, base resin for PP compound (automotive) thin-walled food packaging, housewares

General Information			
Features	Food Contact Acceptable		
	High Flow		
	High Impact Resistance		
	High Rigidity		
	Impact Copolymer		
	Low to No Odor		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Food Packaging		
	Household Goods		
	Thin-walled Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	60	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)	28.4	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1620	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	44	J/m	

23°C	69	J/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature	120	°C	ASTM D648

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