

Hanwha Total PP BI451

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BI451 is a block copolymer polypropylene resin for injection molding applications. This grade is produced by HIPP technology.

General Information			
UL YellowCard	E140331-222884		
Features	Block Copolymer		
	Rigidity, high		
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	Highlight		
	m-benzene dimethyl		
	Crystallization		
	Impact resistance, high		
	Fast molding cycle		
	Good liquidity		
	Scratch resistance		
	Good toughness		
	Medium hardness		
Uses	Lawn and Garden Equipment		
	Industrial application		
	Car interior parts		
	Car interior equipment		
	Container		
	Outdoor application		
	Toys		
Forms	Particle		
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)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.3	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638

Flexural Modulus	1770	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	44	J/m	ASTM D256
23°C	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	135	°C	ASTM D648
Optical	Nominal Value		Test Method
Gloss	82		ASTM D2457
Additional Information			
Dupont Impact Strength, SAMSUNG TOTAL, -20°C: 250 kg/cm			
Injection	Nominal Value	Unit	
Rear Temperature	170 - 200	°C	
Middle Temperature	180 - 210	°C	
Front Temperature	200 - 230	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Pressure	78.5 - 118	MPa	
Holding Pressure	58.8 - 98.1	MPa	
Injection instructions			
Cooling Time: 25 to 40 sec			

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