

# Hanwha Total PP BI616

Polypropylene Impact Copolymer

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

BI616 is a high impact polypropylene for injection molding obtaining the optimum balance of impact resistance and strength through the most appropriate rubber design, and its injection processibility and mechanical properties allow for its use in toys, goods containers and electrical / electronic appliances. BI616 contains an additive that enhances weatherability so that it may be used in outdoor appliances.

General Information			
UL YellowCard	E140331-222886		
Features	Block Copolymer		
	High strength		
	m-benzene dimethyl		
	Impact resistance, high		
	Dispersible		
	Weldable		
	Workability, good		
	Fast molding cycle		
	Medium liquidity		
Uses	Good weather resistance		
	Battery box		
	Electrical/Electronic Applications		
	Electrical appliances		
	Industrial application		
	Household goods		
	Container		
	Outdoor application		
	Toys		
Forms	Particle		
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)	15	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	29.4	MPa	ASTM D638
Flexural Modulus	1420	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	44	J/m	ASTM D256
23°C	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	118	°C	ASTM D648
Optical	Nominal Value		Test Method
Gloss	75		ASTM D2457
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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#### Recommended distributors for this material

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