

Hanwha Total PP BJ500

Polypropylene Impact Copolymer
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:
BJ500 is a high impact block copolymer which has high ethylene-propylene rubber content. Due to optimum rubber design, BJ500 has an excellent property balance between high stiffness and impact strength.

General Information			
UL YellowCard	E140331-222894		
Features	Block Copolymer		
	Rigidity, high		
	Impact resistance, high		
	Workability, good		
	Good heat sealability		
Uses	Battery box		
	Electrical appliances		
	Industrial application		
	Household goods		
	Car interior parts		
	Automotive exterior parts		
	Container		
	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)	10	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
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	1320	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	49	J/m	ASTM D256
0°C	59	J/m	ASTM D256
20°C	98	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°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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