

Hanwha Total PP BB110

Polypropylene Impact Copolymer
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BB110 is block copolymer polypropylene resin for sheets and blow molding applications. This grade is designed to be processed in conventional extrusion equipment.

General Information			
UL YellowCard	E140331-100058359		
Features	Block Copolymer		
	Rigidity, high		
	Workability, good		
	Good melt strength		
	Low temperature impact resistance		
Uses	Wave plate		
	Video tape		
	Bottle		
	Application in Automobile Field		
	Food packaging		
	Stationery		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.4	MPa	ASTM D638
Fracture	24.5	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Flexural Modulus	1270	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	590	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525

Additional Information

Dupont Impact Strength, SAMSUNG TOTAL, -20°C: 300 kg/cm

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	170 - 230	°C
Cylinder Zone 2 Temp.	170 - 230	°C
Cylinder Zone 3 Temp.	170 - 230	°C
Cylinder Zone 4 Temp.	170 - 230	°C
Cylinder Zone 5 Temp.	170 - 230	°C
Adapter Temperature	210 - 230	°C
Melt Temperature	210 - 230	°C
Die Temperature	210 - 230	°C

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