



January, 2013

## HOPELEN B-110

PP HOMOPOLYMER

### General Information

#### Description

B-110 is homo polymer resin produced through the polymerization of propylene. This grade can be processed by sheet extrusion. The characteristics of high strength, heat resistance and transparency endow the final product with an outstanding image.

#### Applications

- ◆ Flat sheet use(stationery files, binders, fancy goods, videotape case etc.)
- ◆ Vacuum forming use(food packaging/industrial tray)

### Physical Properties<sup>1</sup>

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	0.5	g/10min		
Density	ASTM D792	0.90	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ASTM D638	370	kgf/cm <sup>2</sup>	36	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	16,000	kgf/cm <sup>2</sup>	1,570	MPa
<b>Impact</b>					
Notched Izod Impact Strength (23℃ )	ASTM D256	5.0	kgf·cm/cm	49	J/m
Notched Izod Impact Strength (-10℃ )	ASTM D256	2.5	kgf·cm/cm	25	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ASTM D648	105			

#### NOTE

ISO 9001, 14001, /TS 16949

<sup>1</sup> Physical Properties : these are not to be construed as specifications

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### Physical Properties<sup>1</sup>

Physical	Test Method	Nominal Values			
Melt Flow Index	ISO 1133	0.5	g/10min		
Density	ISO 1183	0.90	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ISO 527-1	350	kgf/cm <sup>2</sup>	34	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	13,000	kgf/cm <sup>2</sup>	1,270	MPa
<b>Impact</b>					
Notched Izod Impact Strength (23°C)	ISO 180	4.0	kgf·cm/cm	39	J/m
Notched Izod Impact Strength (-10°C)	ISO 180	2.0	kgf·cm/cm	20	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ISO 75-1	85			

#### NOTE

ISO 9001, 14001, ITS 16949

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The provided data sheets and parameters are according to original manufacturers records and specifications, MEPC may no guarantee of outcome in individual applications, It is recommended that clients makes their own assessment of suitability of the commodity.