

## HOPELEN B-111

## PP HOMOPOLYMER

### General Information

#### Description

B-111 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	380	kgf/cm <sup>2</sup>	37	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	18,000	kgf/cm <sup>2</sup>	1,760	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	135	℃		

#### 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	360	kgf/cm <sup>2</sup>	35	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	14,500	kgf/cm <sup>2</sup>	1,420	MPa
<b>Impact</b>					
Notched Izod Impact Strength (23℃)	ISO 180	4.0	kgf-cm/cm	39	J/m
Notched Izod Impact Strength (-10℃)	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	115	℃		

#### NOTE

ISO 9001, 14001, /TS 16949

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