

# SKYGREEN® PN100

**SKY** GREEN

## Product description

Available in 4 unique grades, SKYGREEN®'s outstanding features make it an ideal choice for a variety of applications. SKYGREEN® PN series offers combination of great clarity and flowability that makes it injection molding intricate designs with small and thin parts. Among other SKYGREEN® grades, PN100 has outstanding flowability. SKYGREEN® PN does not contain Bisphenolderivatives (BPA, etc.) and Phthalate-based plasticizer components regulated by the EU RoHS regulations. It also meets the requirements for food contact materials in Korea, the US, Europe, China, and Japan.

## Applications

- Cosmetic Packaging
- Skin Care Packaging (Bottles, Jars)
- Color Cosmetics Packaging
- Consumer Housewares
- Home Appliances
- Food and Beverage Packaging
- Stationery
- Others

## Key Attributes

- Clarity
- Chemical Resistance
- Flowability



Typical properties for

# SKYGREEN<sup>®</sup> PN100

ASTM  
Method

## Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.27
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R-scale	105
Tensile Strength @ Yield	ASTM D638	Kgf/cm <sup>2</sup>	470
Tensile Strength @ Break	ASTM D638	Kgf/cm <sup>2</sup>	470
Elongation @ Yield	ASTM D638	%	4.5
Elongation @ Break	ASTM D638	%	120
Flexural Strength	ASTM D790	Kgf/cm <sup>2</sup>	720
Flexural Modulus	ASTM D790	Kgf/cm <sup>2</sup>	19,300
Izod Impact Strength Notched @ 23°C	ASTM D256	J/m	105
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648	°C	70 / 62
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	90



Typical properties for

# SKYGREEN<sup>®</sup> PN100

ISO  
Method

## Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.27
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R-scale	105
Tensile Strength @ Yield	ISO 527	MPa	49
Tensile Strength @ Break	ISO 527	MPa	23
Elongation @ Yield	ISO 527	%	4.1
Elongation @ Break	ISO 527	%	40
Flexural Strength	ISO 178	MPa	67
Flexural Modulus	ISO 178	MPa	1,890
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m <sup>2</sup>	7.0
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	72 / 62
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	90

