

# 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

### Notes

The data listed here is preliminary data sheet of product. Therefore this sheet should not be used to establish specification limits or used alone as a basis for design. This information is not intended as a warranty of any kind. Customers must make their own representative test and assume all risks of use, whether used alone or in combination with other products. SK Chemicals assumes no obligation or liability of any advice furnished by it or results obtained with respect to these products. All warranties of merchantability for a particular purpose or use are excluded and disclaimed.

Typical properties for

# SKYGREEN® 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/cm2	470
Tensile Strength @ Break	ASTM D638	Kgf/cm2	470
Elongation @ Yield	ASTM D638	%	4.5
Elongation @ Break	ASTM D638	%	120
Flexural Strength	ASTM D790	Kgf/cm2	720
Flexural Modulus	ASTM D790	Kgf/cm2	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

### Headquarter / R&D center

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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

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