

Technical Data Sheet

SKYGREEN® KN100



SKY GREEN

Product description

SKYGREEN® is a glycol-modified polyethylene terephthalate (PETG) with exceptional transparency, chemical resistance, and processability. Available in 4 unique grades, SKYGREEN®'s outstanding features make it an ideal choice for a variety of applications. K series offers excellent clarity and processability that makes it an attractive solution for versatile end-use applications. It does not contain Bisphenol derivatives (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. For further details, please refer to SK Chemicals' technical documents.

Applications

- Sheet
- Decorative Film
- Construction
- Food and Beverage Packaging
- Cosmetic Packaging
- General Packaging
- Others

Key Attributes

- Clarity
- Transparency
- Processability
- Bisphenol A Not Found

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.

Ver.1.0;20.08.07

Typical properties for

SKYGREEN® KN100

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	108
Tensile Strength @ Yield	ASTM D638	Kgf/cm2	455
Tensile Strength @ Break	ASTM D638	Kgf/cm2	300
Elongation @ Yield	ASTM D638	%	4.5
Elongation @ Break	ASTM D638	%	250
Flexural Strength	ASTM D790	Kgf/cm2	755
Flexural Modulus	ASTM D790	Kgf/cm2	22,000
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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Gyeonggi-do, Republic of Korea [13494]
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The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by SK chemicals corporation.

Typical properties for

SKYGREEN[®] KN100

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	108
Tensile Strength @ Yield	ISO 527	MPa	49
Tensile Strength @ Break	ISO 527	MPa	30
Elongation @ Yield	ISO 527	%	4.1
Elongation @ Break	ISO 527	%	240
Flexural Strength	ISO 178	MPa	64
Flexural Modulus	ISO 178	MPa	1,800
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m2	7.3
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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