

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



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/cm ²	455
Tensile Strength @ Break	ASTM D638	Kgf/cm ²	300
Elongation @ Yield	ASTM D638	%	4.5
Elongation @ Break	ASTM D638	%	250
Flexural Strength	ASTM D790	Kgf/cm ²	755
Flexural Modulus	ASTM D790	Kgf/cm ²	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



Typical properties for

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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/m ²	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

