

## SKYGREEN® KN100

PETG

SK Chemicals

SKYGREEN® is a glycol-modified polyethylene terephthalate (PETG) with exceptional transparency, chemical resistance, and processability

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Density, 73 °F	1270	kg/m <sup>3</sup>	ASTM D 792

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Yield stress	49	MPa	ISO 527
Yield strain	4.1	%	ISO 527
Stress at Break	30	MPa	ISO 527
Strain at Break	240	%	ISO 527
Flexural Modulus (23 °C)	1800	MPa	ISO 178
Flexural strength	64	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	7.3	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Strength at Yield	44.6	MPa	ASTM D 638
Tensile Strength at Break	29.4	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	250	%	ASTM D 638
Flexural Modulus	2158	MPa	ASTM D 790
Flexural Strength	74	MPa	ASTM D 790
Rockwell Hardness	R 108	-	ASTM D 785
Notched Impact Strength (Izod), 1/8 in	105	J/m	ASTM D 256

Thermal Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	62	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	72	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	70	°C	ASTM D 648
DTUL @ 264 psi	62	°C	ASTM D 648

Optical Properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Haze	1	%	ASTM D 1003
Light Transmittance	90	%	ASTM D 1003

### Characteristics

#### Processing

Film Extrusion, Sheet Extrusion

#### Certifications

Food approval

#### Special Characteristics

Transparent

#### Applications

Packaging

#### Chemical Resistance

General Chemical Resistance

### Disclaimer

#### Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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