

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
ASTM Data			
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Density, 73°F	1270	kg/m³	ASTM D 792

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
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/m²	ISO 180/1A

ASTM Data			
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
ISO Data			
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
ASTM Data			
DTUL @ 66 psi	70	°C	ASTM D 648
DTUL @ 264 psi	62	°C	ASTM D 648

Optical Properties	Value	Unit	Test Standard
ASTM Data			
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