

SKYGREEN® KN100

SK Chemicals - Polyethylene Terephthalate Glycol Comonomer

General Information

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

General

Features	<ul style="list-style-type: none"> • BPA Free • Chemical Resistant 	<ul style="list-style-type: none"> • Excellent Processability • Food Contact Acceptable 	<ul style="list-style-type: none"> • High Clarity
Uses	<ul style="list-style-type: none"> • Beverage Packaging • Construction Applications 	<ul style="list-style-type: none"> • Cosmetic Packaging • Film 	<ul style="list-style-type: none"> • Food Packaging • Sheet
Appearance	<ul style="list-style-type: none"> • Clear/Transparent 		
Forms	<ul style="list-style-type: none"> • Pellets 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6470	psi	ASTM D638
Tensile Stress (Yield)	7110	psi	ISO 527-2
Tensile Strength (Break)	4270	psi	ASTM D638
Tensile Stress (Break)	4350	psi	ISO 527-2
Tensile Elongation (Yield)	4.5	%	ASTM D638
Tensile Strain (Yield)	4.1	%	ISO 527-2
Tensile Elongation (Break)	250	%	ASTM D638
Tensile Strain (Break)	240	%	ISO 527-2
Flexural Modulus	313000	psi	ASTM D790
Flexural Modulus	261000	psi	ISO 178
Flexural Strength	10700	psi	ASTM D790

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Mechanical	Nominal Value	Unit	Test Method
Flexural Stress	9280	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F)	3.5	ft·lb/in ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	158	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	162	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	144	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	144	°F	ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Light Transmittance	90.0	%	ASTM D1003
Haze	< 1.00	%	ASTM D1003