

# SKYGREEN® J2003

## SK Chemicals - Polycyclohexylenedimethylene Terephthalate, Glycol

### General Information

#### Product Description

SKYGREEN® J is a PCTG with excellent appearance and clarity, as well as its easy processability. Among other SKYGREEN® grades, J2003 has outstanding impact strength and chemical resistance. SKYGREEN® J 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

- Home Appliances
- Homeappliance
- Food and Beverage Packaging
- Consumer Housewares
- Cosmetic Packaging
- Others

#### Key Attributes

- Bright Color and Transparency
- Great Chemical Resistance and Processability

#### General

Features	<ul style="list-style-type: none"> <li>• BPA Free</li> <li>• Chemical Resistant</li> </ul>	<ul style="list-style-type: none"> <li>• Food Contact Acceptable</li> <li>• Good Processability</li> </ul>	<ul style="list-style-type: none"> <li>• High Clarity</li> <li>• High Impact Resistance</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Appliances</li> <li>• Beverage Packaging</li> </ul>	<ul style="list-style-type: none"> <li>• Cosmetic Packaging</li> <li>• Food Packaging</li> </ul>	<ul style="list-style-type: none"> <li>• Household Goods</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>• Clear/Transparent</li> </ul>		
Forms	<ul style="list-style-type: none"> <li>• Pellets</li> </ul>		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.23		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)	6540	psi	ASTM D638
Tensile Stress (Yield)	6380	psi	ISO 527-2
Tensile Strength (Break)	7680	psi	ASTM D638
Tensile Stress (Break)	6670	psi	ISO 527-2
Tensile Elongation (Yield)	5.0	%	ASTM D638
Tensile Strain (Yield)	4.4	%	ISO 527-2
Tensile Elongation (Break)	340	%	ASTM D638
Tensile Strain (Break)	220	%	ISO 527-2
Flexural Modulus	260000	psi	ASTM D790
Flexural Modulus	232000	psi	ISO 178
Flexural Strength	9670	psi	ASTM D790
Flexural Stress	8700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	16	ft-lb/in	ASTM D256
Notched Izod Impact Strength (73°F)	44	ft-lb/in <sup>2</sup>	ISO 180

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<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Rockwell Hardness (R-Scale)	105		ASTM D785
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	165	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	169	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	147	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	147	°F	ISO 75-2/A
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Light Transmittance	90.0	%	ASTM D1003
Haze	< 1.00	%	ASTM D1003