

SKYGREEN® S2008

SKYGREEN

Product description

SKYGREEN® S2008 is a glycol-modified polyethylene terephthalate (PETG) with excellent clarity and processability that makes it an attractive solution for versatile end-use applications. S2008 meets the ISO 10993-1 guidelines and USP Class VI biocompatibility requirements. (ISO 10993-1 guidelines include 10993-3 genotoxicity, 10993-4 blood compatibility, 10993-5 cytotoxicity, 10993-6 muscle graft, 10993-10 sensitivity/stimulation, 10993-11 acute systemic toxicity, and Aman chronic systemic toxicity.) It has excellent optical/physical properties stability even after sterilization, satisfying the test requirements described in ISO 11607-1. As with other SKYGREEN® grades, S2008 meets the requirements for food contact materials in Korea, the US, Europe, China, and Japan.

Applications

- Medical Device
- Medical Packaging
- Sheet
- Construction
- Home Appliances
- Labware
- Food and Beverage Packaging
- Others

Key Attributes

- Clarity
- Transparency
- Processability

Notes

The data listed here is preliminary data sheet of product. Therefore this sheet should not be used to establish specification limits or used alone as a basis for design. This information is not intended as a warranty of any kind. Customers must make their own representative test and assume all risks of use, whether used alone or in combination with other products. SK Chemicals assumes no obligation or liability of any advice furnished by it or results obtained with respect to these products. All warranties of merchantability for a particular purpose or use are excluded and disclaimed.

Typical properties for

SKYGREEN[®] S2008

ASTM Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.27
Mold Shrinkage	ASTM D955	%	0.3 ~ 0.6
Rockwell Hardness	ASTM D785	R-scale	110
Tensile Strength @ Yield	ASTM D638	Kgf/cm ²	455
Tensile Strength @ Break	ASTM D638	Kgf/cm ²	410
Elongation @ Yield	ASTM D638	%	5.0
Elongation @ Break	ASTM D638	%	250
Flexural Strength	ASTM D790	Kgf/cm ²	705
Flexural Modulus	ASTM D790	Kgf/cm ²	21,500
Izod Impact Strength Notched @ 23 °C	ASTM D256	J/m	100
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648	°C	70 / 62
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	90

Headquarter / R&D center

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Typical properties for

SKYGREEN[®] S2008

ISO Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ISO 1183	-	1.27
Mold Shrinkage	D955	%	0.3 ~ 0.6
Rockwell Hardness	ISO 2039-2	R-scale	110
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	67
Flexural Modulus	ISO 178	MPa	1,920
Izod Impact Strength Notched @ 23 °C	ISO 180	KJ/m ²	8.8
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	73 / 64
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	90

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The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by SK chemicals corporation.