

Technical Data Sheet

# SKYGREEN® S2008



## SKY GREEN

### 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.

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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/cm2 | 455       |
| Tensile Strength @ Break                                 | ASTM D638   | Kgf/cm2 | 410       |
| Elongation @ Yield                                       | ASTM D638   | %       | 5.0       |
| Elongation @ Break                                       | ASTM D638   | %       | 250       |
| Flexural Strength                                        | ASTM D790   | Kgf/cm2 | 705       |
| Flexural Modulus                                         | ASTM D790   | Kgf/cm2 | 21,500    |
| Izod Impact Strength<br>Notched @ 23°C                   | ASTM D256   | J/m     | 100       |
| Heat Distortion Temperature<br>@ 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<br>Notched @ 23°C                   | ISO 180     | KJ/m2   | 8.8       |
| Heat Distortion Temperature<br>@ 0.455 MPa / @ 1.820 MPa | ISO 75      | °C      | 73 / 64   |
| Haze                                                     | ASTM D1003  | %       | < 1.0     |
| Transmittance                                            | ASTM D1003  | %       | 90        |

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