

Technical Data Sheet

ECOZEN[®] Claro 100

**ECOZEN**

Product description

ECOZEN[®] Claro is a semi-crystalline Copolyester grade, offering a combination of great clarity and chemical resistance. Articles manufactured with ECOZEN[®] Claro meet the definition of polyethylene terephthalate as ASTM-D7611-20 and the California Law's Public Resources Code Division 12.7 Plastic Waste Chapter 2. Containers and Packaging. Articles manufactured with ECOZEN[®] Claro are recyclable in the PET recycling stream. ECOZEN[®] Claro 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.

Applications

- Cosmetic Packaging
- Skin Care Packaging (Bottles, Jars)
- Consumer Housewares

Key Attributes

- Chemical Resistance
- Clarity
- Transparency

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.

Ver.1, '20.08.11

Typical properties for

ECOZEN[®] Claro 100

ASTM Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.32
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R-scale	>115
Tensile Strength @ Yield	ASTM D638	Kgf/cm ²	610
Tensile Strength @ Break	ASTM D638	Kgf/cm ²	440
Elongation @ Yield	ASTM D638	%	5.0
Elongation @ Break	ASTM D638	%	200
Flexural Strength	ASTM D790	Kgf/cm ²	880
Flexural Modulus	ASTM D790	Kgf/cm ²	25,000
Izod Impact Strength Notched @ 23°C	ASTM D256	J/m	60
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648	°C	73 / 62
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	89

Headquarter / R&D center

310 Pangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea [13494]
TEL : +82-2-2008-2008
FAX : +82-2-2008-2009

Ulsan Plant

718, Cheoyong-ro, Nam-gu, Ulsan, Republic
of Korea [44784]
TEL : +82-52-256-0121
FAX : +82-52-256-0652

Ver.1, '20.08.11

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.

Typical properties for

ECOZEN[®] Claro 100

ISO Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ISO 1183	-	1.32
Mold Shrinkage	D955	%	0.2 ~ 0.5
Rockwell Hardness	ISO 2039-2	R-scale	>115
Tensile Strength @ Yield	ISO 527	MPa	54
Tensile Strength @ Break	ISO 527	MPa	25
Elongation @ Yield	ISO 527	%	3.8
Elongation @ Break	ISO 527	%	280
Flexural Strength	ISO 178	MPa	73
Flexural Modulus	ISO 178	MPa	2,400
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m2	3.6
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	73 / 61
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	89

Headquarter / R&D center

310 Pangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea [13494]
TEL : +82-2-2008-2008
FAX : +82-2-2008-2009

Ulsan Plant

718, Cheoyong-ro, Nam-gu, Ulsan, Republic
of Korea [44784]
TEL : +82-52-256-0121
FAX : +82-52-256-0652

Ver.1, '20.08.11

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.