

ECOTRIA

Claro100-CR50

 ECOTRIA

Product description

SK chemicals chemical recycling solution utilizes chemically recycled raw materials to deliver the same level of physical properties as existing copolyesters.

ECOTRIA CLARO-CR is a copolyester designed to be fully compatible with PET recycling stream and containing chemically recycled contents.

It is a suitable and clear copolyester in a variety of consumer product applications, including food & beverage packaging, general purpose packaging, flexible film packaging, and consumer products.

ECOTRIA CLARO-CR meet the definition of PET as ASTM-D7611-20 with the resin identification

Applications

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

Key Attributes

- PCR Material (50%)
- Recyclable with the PET stream
- Transparency
- Chemical Resistance
- Ability to mold thick parts
- Excellent processing capability
- Low crystallinity
- Good flowability

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

ECOTRIA Claro100-CR50

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/cm2	520
Tensile Strength @ Break	ASTM D638	Kgf/cm2	295
Elongation @ Yield	ASTM D638	%	5.0
Elongation @ Break	ASTM D638	%	310
Flexural Strength	ASTM D790	Kgf/cm2	815
Flexural Modulus	ASTM D790	Kgf/cm2	26,400
Izod Impact Strength Notched @ 23°C	ASTM D256	J/m	65
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648	°C	70/-
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	> 85

Headquarter / R&D center

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Typical properties for

ECOTRIA Claro100-CR50

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	53
Tensile Strength @ Break	ISO 527	MPa	24
Elongation @ Yield	ISO 527	%	4.5
Elongation @ Break	ISO 527	%	170
Flexural Strength	ISO 178	MPa	80
Flexural Modulus	ISO 178	MPa	2,570
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m2	6.4
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	72/ -
Haze	D1003	%	< 1.0
Transmittance	D1003	%	> 85

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Ver.1, '21.04.21

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.