

ECOTRIA

PN200-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 PN-CR is a copolyester designed to be applied a high flow product with containing chemically recycled contents.

It is engineered specifically for cosmetics packaging applications with bright color, great clarity and various injection parts with unique fluidity, which makes it injection molding intricate parts with small and thin items in a variety of designs

Applications

- Cosmetic Packaging
- Skin Care Packaging (Bottles, Jars)
- Consumer Housewares
- Home Appliances
- Stationery
- Food and Beverage Packaging
- Others

Key Attributes

- PCR Material (50%)
- Clarity
- Chemical Resistance

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 PN200-CR50

ASTM Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.27
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R-scale	> 115
Tensile Strength @ Yield	ASTM D638	Kgf/cm2	465
Tensile Strength @ Break	ASTM D638	Kgf/cm2	285
Elongation @ Yield	ASTM D638	%	5.0
Elongation @ Break	ASTM D638	%	185
Flexural Strength	ASTM D790	Kgf/cm2	740
Flexural Modulus	ASTM D790	Kgf/cm2	22,700
Izod Impact Strength Notched @ 23°C	ASTM D256	J/m	96
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648	°C	70/-
Haze	ASTM D1003	%	< 1.5
Transmittance	ASTM D1003	%	> 85

Headquarter / R&D center

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Typical properties for

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ISO Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ISO 1183	-	1.27
Mold Shrinkage	D955	%	0.2 ~ 0.5
Rockwell Hardness	ISO 2039-2	R-scale	> 115
Tensile Strength @ Yield	ISO 527	MPa	47
Tensile Strength @ Break	ISO 527	MPa	25
Elongation @ Yield	ISO 527	%	4.5
Elongation @ Break	ISO 527	%	145
Flexural Strength	ISO 178	MPa	72
Flexural Modulus	ISO 178	MPa	2,270
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m2	7.7
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	72/ -
Haze	D1003	%	< 1.5
Transmittance	D1003	%	> 85

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