

# ECOZEN<sup>®</sup>

## T110 PRO

**ECOZEN**

### Product description

ECOZEN<sup>®</sup> is a glycol-modified polyethylene terephthalate with exceptional transparency and chemical resistance. Due to plant-derived biomass components (Carbon-based 10%), ECOZEN<sup>®</sup> has more heat resistance compared to SKYGREEN<sup>®</sup> grades. ECOZEN<sup>®</sup> 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

- Consumer Housewares
- Home Appliance
- Food and Beverage Packaging

### Key Attributes

- High Heat Resistance
- Clarity

### 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

# ECOZEN<sup>®</sup> T110 PRO

## ASTM Method

## Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.23
Mold Shrinkage	ASTM D955	%	0.3 ~ 0.4
Rockwell Hardness	ASTM D785	R-scale	> 115
Tensile Strength @ Yield	ASTM D638	Kgf/cm <sup>2</sup>	490
Tensile Strength @ Break	ASTM D638	Kgf/cm <sup>2</sup>	550
Elongation @ Yield	ASTM D638	%	6.6
Elongation @ Break	ASTM D638	%	285
Flexural Strength	ASTM D790	Kgf/cm <sup>2</sup>	720
Flexural Modulus	ASTM D790	Kgf/cm <sup>2</sup>	16,900
Izod Impact Strength Notched @ 23 °C	ASTM D256	J/m	860
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648	°C	99 / 85
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	84

### 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

Typical properties for

# ECOZEN<sup>®</sup> T110 PRO

## ISO Method

### Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.23
Mold Shrinkage	ASTM D955	%	0.3 ~ 0.4
Rockwell Hardness	ASTM D785	R-scale	> 115
Tensile Strength @ Yield	ISO 527	MPa	47.0
Tensile Strength @ Break	ISO 527	MPa	48.0
Elongation @ Yield	ISO 527	%	6.5
Elongation @ Break	ISO 527	%	238
Flexural Strength	ISO 178	MPa	66
Flexural Modulus	ISO 178	MPa	1,670
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m <sup>2</sup>	93
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	97 / 82
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	84

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