

ECOZEN[®] T110G

**ECOZEN**

Product description

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



Typical properties for

ECOZEN[®] T110G

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	119
Tensile Strength @ Yield	ASTM D638	Kgf/cm ²	520
Tensile Strength @ Break	ASTM D638	Kgf/cm ²	540
Elongation @ Yield	ASTM D638	%	6.8
Elongation @ Break	ASTM D638	%	200
Flexural Strength	ASTM D790	Kgf/cm ²	820
Flexural Modulus	ASTM D790	Kgf/cm ²	19,500
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	%	86



Typical properties for

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ISO
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	119
Tensile Strength @ Yield	ISO 527	MPa	49
Tensile Strength @ Break	ISO 527	MPa	48
Elongation @ Yield	ISO 527	%	5.7
Elongation @ Break	ISO 527	%	150
Flexural Strength	ISO 178	MPa	73
Flexural Modulus	ISO 178	MPa	1,800
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m ²	93
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	97 / 81
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	86

