

ECOZEN[®] T120



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 15%), 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[®] T120

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	121
Tensile Strength @ Yield	ASTM D638	Kgf/cm2	540
Tensile Strength @ Break	ASTM D638	Kgf/cm2	555
Elongation @ Yield	ASTM D638	%	7.1
Elongation @ Break	ASTM D638	%	155
Flexural Strength	ASTM D790	Kgf/cm2	870
Flexural Modulus	ASTM D790	Kgf/cm2	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	109 / 92
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	81



Typical properties for

ECOZEN[®] T120

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	51
Tensile Strength @ Break	ISO 527	MPa	50
Elongation @ Yield	ISO 527	%	6.3
Elongation @ Break	ISO 527	%	130
Flexural Strength	ISO 178	MPa	76
Flexural Modulus	ISO 178	MPa	1,800
Izod Impact Strength Notched @ 23 °C	ISO 180	KJ/m2	93
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	110 / 94
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	81

